

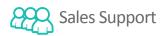
Catalog 2024-2025





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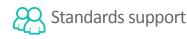


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SLAT secures critical equipments and technical networks for buildings and cities.



FIRE SAFETY / EVACUATION

SLAT CONTRIBUTES TO THE RELIABILITY OF YOUR FIRE PROTECTION EQUIPMENT



More than 300,000 fires ravage buildings in your country. 16,000 of these involved workplaces and public buildings.

In all, these fires claim around **30,000 victims a year**. Thanks to increasingly sophisticated fire detection and safety systems, these figures have been falling almost continuously for over ten years. However, the vigilance and commitment of professionals and all stakeholders must continue. We welcome the new measures published in France to protect historic monuments in the wake of the tragic fire at Notre-Dame Cathedral, and hope that they will serve as an inspiration to other countries.

All the more so as new risks are emerging with the electrification of our practices. In fact, the primary cause of fires is still electrical malfunction. It's worth remembering that **3 out of 4 businesses disappear after a fire disaster**.

To improve the reliability of fire detection and fire containment equipment, SLAT works with leading manufacturers in the sector. SLAT offers facility managers and emergency response teams reliable equipment and **the guarantee of faultless operation of their installations**.



SELECTION GUIDE

	A	25	sor	IRES	
	EN 5	54-4			
Standard	EN 122	101-10	EN 54-4		
	NF	SSI			
Application	Fire se	ecurity	PA/VA S	Systems	
Voltage	24 V	48 V	24 V	48 V	
	2 A	2 A	6 A	12 A	
	3 A	3 A	12 A		
	4 A	4 A			
0	6 A	6 A			
Current	8 A	8 A			
	12 A	12 A			
	16 A				
	24 A				
Format	Box o	r Rack	Rack		
	7 Ah	2,1 Ah			
	12 Ah	12 Ah			
	17 Ah	17 Ah		ning forems CE to 225 Ab	
Battery capacity	24 Ah	24 Ah	Compatible with batte	ries from 65 to 225 Ah	
	40 Ah	40 Ah			
	65 Ah	65 Ah			
Page	٤	3	1	4	





Emergency power supplies with batteries - Fire Safety

24 V DC • 48 V DC



Certified as per standard: EN 54-4/A2 "Fire detection and alarm systems" Certified as per standard: EN 12 101-10 "Smoke and heat control systems" VdS Approval

Certificates can be downloaded from www.slat.com



Communication by LED on the front panel • Dry Contact*

The AES emergency power supplies provide permanent and backup power for Fire Safety installations. *This range exists also with RS485 serial link













Main functions

- \sim Monitors battery presence and impedance (aging).
- \sim The installation resumes as soon as the mains returns.
- \sim Protects the battery from temperature variations.

Benefits of the AES range

- \sim A wide range of products in terms of power and enclosures.
- \sim Batteries connections supplied with protected lugs.
- \sim Built-in lightning protection.
- \sim Alarm reports on dry contacts.
- \sim 6 fused outputs as a standard (C38, C85).
- \sim Space and DIN rail provided for transmission units (C38, C85).

AB = With Battery SB = Without Battery

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
AES 24V			
AESI 24V 2A C24 SB G	2,0 kg	322 x 248 x 126	2340224000
AESI 24V 2A C24 AB 7 AH G	8,0 kg	322 x 248 x 126	2340224007
AESI 24V 2A C24 AB 12 AH G	10,0 kg	323 x 248 x 126	2340224012
AESI 24V 3A C38 SB G	5,0 kg	289 x 350 x 189	2340338000
AESI 24V 3A C38 AB 12 AH G	15,0 kg	289 x 350 x 189	2340338012
AESI 24V 3A C38 AB 24 AH G	25,0 kg	289 x 350 x 189	2340338024
AESI 24V 3A C85 SB G	8,0 kg	408 x 408 x 224	2340385000
AESI 24V 3A C85 AB 38AH G	28,0 kg	408 x 408 x 224	2340385040
AES 24V 4A F3U G	3,0 kg	483 x 132 x 110	2140430000
AES 24V 6A C38 SB G	5,0 kg	289 x 350 x 189	2140638000
AES 24V 6A C38 AB 24 AH G	25,0 kg	289 x 350 x 189	2140638024
AES 24V 6A C85 SB G	9,0 kg	408 x 408 x 224	2140685000
AES 24V 6A C85 AB 38AH G	39,0 kg	408 x 408 x 224	2140685040
AES 24V 6A F3U G	3,0 kg	483 x 132 x 110	2140630000
AES 24V 8A C85 SB G	10,0 kg	408 x 408 x 224	2140885000
AES 24V 8A C85 AB 38AH G	40,0 kg	408 x 408 x 224	2140885040
AES 24V 8A RACK G	3,0 kg	483 x 132 x 235	2140830000
AES 24V 12A C85 SB G	10,0 kg	408 x 408 x 224	2141285000
AES 24V 12A C85 AB 38AH G	40,0 kg	408 x 408 x 224	2141285040
AES 24V 12A RACK G	3,0 kg	483 x 132 x 235	2141230000
AES 24V 16A C180 SB	20,0 kg	505 x 610 x 430	2041618000
AES 24V 16A C180 AB 65AH	68,0 kg	505 x 610 x 430	2041618065
AES 24V 24A C180 SB	20,0 kg	505 x 610 x 430	2042418000
AES 24V 24A C180 AB 65AH	68,0 kg	505 x 610 x 430	2042418065
AES 48V			
AES 48V 2A C24 SB	2,0 kg	322 x 248 x 126	2080224000
AES 48V 2A C24 AB 2,1 AH	6,0 kg	322 x 248 x 126	2080224002
AES 48V 2A C38 SB	5,0 kg	289 x 350 x 189	2080238000
AES 48V 2A C38 AB 12 AH	21,0 kg	289 x 350 x 189	2080238012
AES 48V 3A C38 SB	5,0 kg	289 x 350 x 189	2080338000
AES 48V 3A C38 AB 12AH	21,0 kg	289 x 350 x 189	2080338012
AES 48V 3A F3U	3,0 kg	483 x 132 x 110	2080330000
AES 48V 4A C85 SB	10,0 kg	408 x 408 x 224	2080485000
AES 48V 4A C85 AB 17AH	50,0 kg	408 x 408 x 224	2080485017
AES 48V 4A C85 AB 24AH	62,0 kg	408 x 408 x 224	2080485024
AES 48V 6A C85 SB	10,0 kg	408 x 408 x 224	2080685000
AES 48V 6A C85 AB 24AH	50,0 kg	408 x 408 x 224	2080685024
AES 48V 6A RACK	3,0 kg	483 x 132 x 235	2080630000
AES 48V 8A C180 SB	20,0 kg	505 x 610 x 430	2080818000
AES 48V 8A C180 AB 40AH	80,0 kg	505 x 610 x 430	2080818040
AES 48V 8A C180 AB 65AH	116,0 kg	505 x 610 x 430	2080818065
AES 48V 8A RACK	3,0 kg	483 x 132 x 235	2080830000
AES 48V 12A C180 SB	20,0 kg	505 x 610 x 430	2081218000
AES 48V 12A C180 AB 40AH	80,0 kg	505 x 610 x 430	2081218040
AES 48V 12A C180 AB 65AH	116,0 kg	505 x 610 x 430	2081218065
AES 48V 12A RACK	3,0 kg	483 x 132 x 235	2081230000

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> Ratings										
	50 W	75 W	100 W	150 W	200 W	300 W	400 W	600 W		
24 V DC	2 A	3 A	4 A	6 A	8 A	12 A	16 A	24 A		
48 V DC	-	-	2 A	3 A	4 A	6 A	8 A	12 A		
The currents values refer to the nomina	l current (I _n) a	at rated outp	ut power.							
> Standard-based specifications										
Safety	EN 62368-1									
EMC - Interference Immunity	EN 50130-4	EN 50130-4 • EN 61000-6-1 • EN 61000-6-2								
EMC - Emission	EN 61000-3	-2 • EN 6100	0-6-3 • EN 6	51000-6-4 • El	N 55032 B cla	ISS				
Industry-specific	NFS 61940	• EN 54-4 / A	2 • EN 1210	1-10						
Environmental	This product	This product range meets the environmental requirements according to ISO 14001, RoHS and WEEE								
Certification VdS	VdS 2344 - 2 VdS 2203 - 2		- 2882 (50-7	5 W)						
> Environmental specifications										
Hygrometry				elative humidi relative humio	•	•	.			
Storage temperature				-25 to) +85°C					
Operating temperature	Power			50 W - 75 W			100 W - 600 W			
	at 75% of load			-10°C to +60°C			-5°C to +50°C			
	at 100% of load -10°C t				o +55°C -5°C to +40°C					
Maximum operating height		Above 2,0	00 m, the m	aximum temp	erature decr	eases 5% eve	ery 1,000 m			
Service life 50-75 W	200),000 hours a	at 25°C (ext.	environment)	and 75% of I	oad at nomir	nal mains volt	age		
Service life 100-600 W	50,	,000 hours a	t 25°C (ext. e	environment)	and 75% of lo	oad at nomin	al mains volt	age		
> Input characteristics										
		50 W	- 75 W			100 W	- 600 W			
Voltage	9	9 to 264 V A	C single-pha	se	19	5.5 to 264 V	AC single-ph	ase		
Frequency				45 to	65 Hz					
Mains Type				TT - ⁻	ΓN - IT					
Inrush current	Bipol	ar Curve C b	etween 2 an	d 10 A		limited	by NTC			
Upstream circuit breaker to be provided				D c	urve					
Class				Cla	ass I					
	50 W	75 W	100 W	150 W	200 W	300 W	400 W	600 W		
Primary current @ 195V	0.52 A	0.78 A	0.75 A	1 A	1.5 A	2 A	3 A	4 A		
Efficiency	50 W ·	- 75 W	100 W	- 150 W	200 W	- 300 W	400 W	- 600 W		
ŋ @ 20% load	81.	3%	7	'5%	84	4%	8	5%		
ŋ @ nominal load	90.	1%	5	34%	90	0%	9:	1%		
> Output characteristics										
Nominal voltage		24	V DC			48	V DC			
Float voltage (U _n) adjusted to half load and 25°C		27.2 V	+/-0.5%			54.4 V	+/-0.5%			
Current limitation charger					l _n					

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> Reliability of the output	voltage						
Protection against external interferences	 Overvoltage occur conductor impeda Short circuit at the Differential mode Battery polarity re Overvoltages on tl Overcurrents and The short-circuits 	 Resistance against all types of external interferences: Overvoltage occurring in the power supply (lightning, industrial overvoltage, insulation faults on neutral conductor impedance earthing) Short circuit at the primary circuit due to a delayed fuse on the phase conductor Differential mode shock waves by varisor and fuse. Battery polarity reversal. Overvoltages on the secondary circuit. Overcurrents and short-circuits on the secondary circuit. The short-circuits inside the product, protected by primary fuse. High ambient temperatures (outside the specified range). 					
Management of charger current limitation	 Fully protects the 	 Output current limitation allows a charge cycle to be started with a empty battery. Fully protects the product from short-circuits on the installation. Protection selectivity is ensured by fuses on each load output and the battery fuse. 					
High performance filtering and regulation	 Particulary efficient output voltage regulation Static regulation < 0.5% of U_n. Dynamic regulation < 5% of U_n for cumulative variations of the mains and the load (from 10% to 90%). 						
> For the control and mana							
System control	 Battery presence of Temperature insid Battery voltage and 	ns, battery and load fuses. or absence and its impedance. le the cabinet (200 W to 600 W). Id its operating status. de correct operating range.					
Battery charge management	 The charge voltage They are consister The charger feature 	ential for reaching the design life and to es are factory set for «sealed» recombin nt with the battery manufacturer's recor res battery charge current limitation. ver to the load takes priority over the ba	nmendations.				
 Automatic disconnection of the load at end of discharge to preserve its future capacity. Prevents deep discharge that can permanently downgrade performance, Cut-off threshold 1.8 V/cell (+/-0.5%). An alarm is sent before disconnection (Pre-cut alarm threshold 1.85 V/cell (+/-0.5%). The charger integrates a limitation of the battery charging current. This allows your application to take full advantage of the battery's capacity. 							
> Table of charger internal	consumption during a	utonomy					
		24 V DC	48 V DC				
50 W - 75	W	39 mA	-				
100 W - 150) W	75 mA	85 mA				
200 W - 300) W	44 mA	37 mA				
400 W - 600 W		106 mA					

> For optimal communication



50 W - 75 W



100 W - 600 W

Display and remote reporting of the information

- Mains fault (normal source): signaled locally by an orange LED.

- If the mains is not present or < 195 V.
- If the mains fuse is blown or not present, or if product is out of order.
- Remote reporting by dry contact with delay (failsafe).

- Battery fault (safety supply): signaled by an orange LED.

- Remote reporting by dry contact with delay (failsafe).
- If battery is not present: The battery is tested in the following manner:
- Every 30 seconds for the first 20 minutes after commissioning:
- Every 15 minutes after the first 20 minutes, if a fault is detected, the test is conducted every 30 seconds, and continues up to 20 minutes after the fault disappears.
- If the internal impedance is too high (test every 4 hours maximum on a charged battery): signaled by a green LED
- The impedance limit values are:

	24 V DC	48 V DC
50 W - 75 W	650 mΩ +/-15%	-
100 W - 150 W	410 mΩ +/-10%	1.65 Ω +/-10%
200 W - 300 W	164 mΩ +/-10%	656 mΩ +/-10%
400 W - 600 W	82 mΩ +/-10%	328 mΩ +/-10%

- If battery voltage < 1.8 V/ cell +/-3%.

- Output 1 voltage presence (replacement normal source):

Voltage presence on this output is indicated by a green LED.

- Output 2 voltage presence (replacement normal source):

- Voltage presence on this output is indicated by a green LED.
- Remote reporting by dry contact with delay (failsafe) of the absence of one of the 2 load outputs.

- AES operates when the 2 green LEDs, corresponding to the load outputs, are illuminated. If voltage is not present, the LEDs are off.

- Temperature compensation:

A battery voltage compensation system maintains the charge characteristics within the limits specified by the battery manufacturer across the entire operational temperature range.

- Battery current limitation (50 W-75 W):

2 microswitches (position 25%, 50%, 75% of rated current) are used to select the battery charging current according to the battery capacity. Battery manufacturers recommand to maintain charging current within 0.1 to 0.3 C. The product is delivered with the jumper in the '75' position. - Battery current limitation (100 W-600 W):

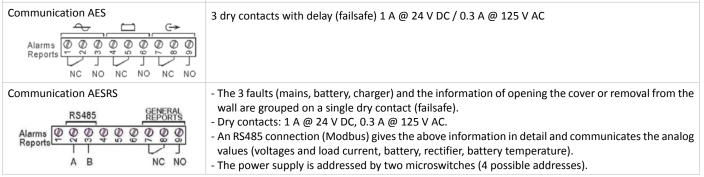
A configuration jumper on the daughterboard (position 25%, 50%, 75% of the rated current) allows to adapt the battery charging current to its capacity.

The product is delivered with the jumper in the '75' position.

-Battery low voltage outage:

The outage threshold is 1.8 V/ cell +/- 3%.

The element causing the outage will be in the + position.



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> Connections specifications							
Screw terminal	50 W - 75 W	100 W - 150 W	200 W - 300 W	400 W - 600 W			
Mains	2.5 mm ² *	2.5 mm ²	2.5 mm ²	2.5 mm ²			
Batteries	2.5 mm ² *	6 mm ²	6 mm ²	10 mm²			
Load (2, 6 or 10 outputs)	2.5 mm ² *	6 mm ²	6 mm ²	10 mm²			
Alarm reports	1.5 mm ² *						

*Unpluggable connectors.

> Cabinet and rack characteristics

	Size W x H x D (mm)	Weight (kg)	IP	Base	Cover
C24	322 x 248 x 126	6 - 10	IP30	Metal, RAL 9006	ABS RAL 9003
C38*	289 x 350 x 189	21 - 25	IP31	Metal, RAL 7035	Metal, RAL 7035
C85*	408 x 408 x 224	25 - 50	IP31	Metal, RAL 7035	Metal, RAL 7035
C180	505 x 610 x 430	68 - 116	IP31	Metal, RAL 7035	Metal, RAL 7035
Rack	483 x 132 x 235	3	IP30	Metal, RAL 7035	Metal, RAL 7035
Rack F3U	482 x 132 x 110	3	IP30	Metal, RAL 7035	Metal, RAL 7035

*The following is installed in the C38 and C85 housings (24 V versions):

- a card with 5 fuse outputs (6 instead of 2 outputs are available)

- a DIN rail for integration of the user's equipment.

The following can be installed additionally in the C38 and C85 housings (24 V versions):

- an additional card with 5 fuse outputs (10 instead of 6 outputs are available).

> Battery capacity according to cabinet

Cabinet	Туре	24 V DC	48 V DC					
C24	Wall-mounted	7 Ah, 12 Ah	2.1 Ah					
C38	Wall-mounted & Floor-mounted	17 Ah, 24 Ah	7 Ah, 12 Ah					
C85	Wall-mounted & Floor-mounted	24 Ah, 38 Ah	12 Ah, 17 Ah, 24 Ah					
C180	Floor-mounted	65 Ah, 80 Ah, 120 Ah, 130 Ah, 170 Ah	38 Ah, 65 Ah, 80 Ah					
Rack F3U	Rack	-	-					
Rack	Rack	-	-					

SLAT can change specifications on his products without prior notice.



24 V DC • 48 V DC

Main functions

discharge.



Certified as per standard EN 54-4/A2

"Detection and fire alarm systems" Certificates can be downloaded from www.slat.com

Communication by LED on the front panel • Dry contact

SONaes battery chargers associated with a battery can be used to back up public address safety systems for evacuation of buildings.



 \sim Alarm currents can be configured from 40 A to 150 A.

 \sim Alarm reports via dry contacts and locally.

 \sim Checks the presence and the impedance of the battery.

 \sim Protects the battery from temperature variations and deep



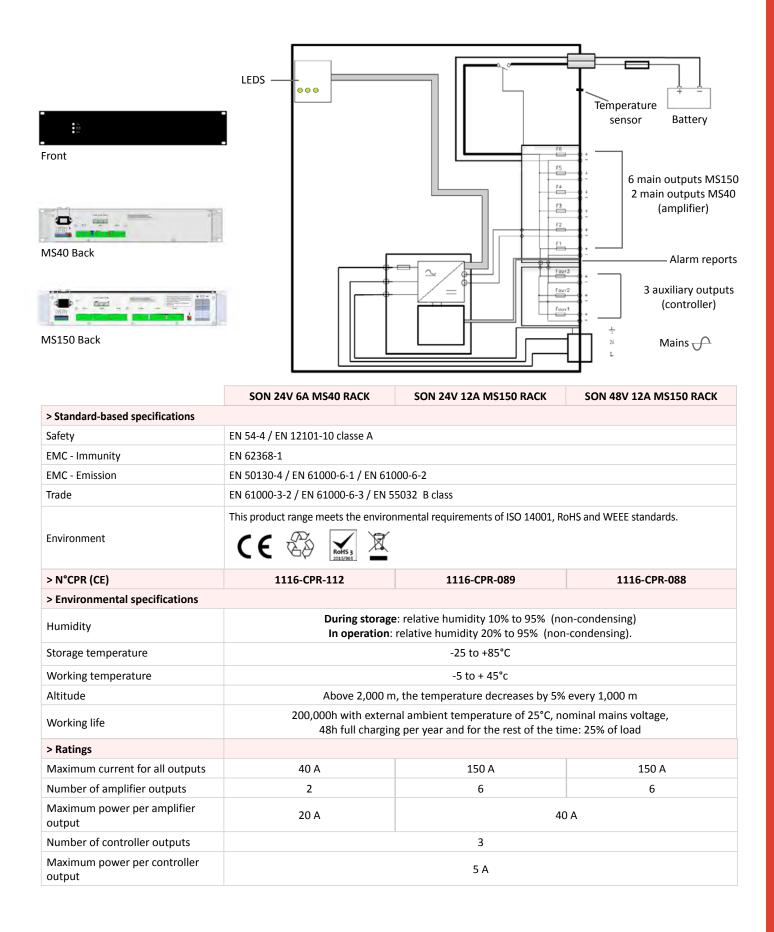
Rack 2U - back view 483 x 89 x 399 mm

Benefits of the SONaes range

- \sim Up to 6 amplifier outputs 40 A and 3 independent fused auxiliary outputs.
- \sim All connectors are pluggable.
- \sim Fully protected product, with rear connectors.
- \sim Integrated lightning protection.

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
SONnes 24V			
SON 24V 6A MS 40 RACK	3,1 kg	483 x 89 x 355	4540633000
SON 24V 12A MS 150 RACK	5,4 kg	483 x 89 x 399	4541233000
FRONT TERMINAL BATTERY 24V			
BAT FRONT 24V 100Ah +CABLOT	75 Kg	1 tray	6540000100
BAT FRONT 24V 150Ah +CABLOT	110 Kg	1 tray	6540000150
SONAES 48V			
SON 48V 12A MS 150 RACK	6,0 kg	483 x 89 x 399	4581233000
FRONT TERMINAL BATTERY 48 V			
BAT FRONT 48V 100Ah +CABLOT	142,4 kg	1 tray	6580000100
BAT FRONT 48V 150Ah +CABLOT	208,0 kg	1 tray	6580000150

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	SON 24V 6A MS40 RACK	SON 24V 12A MS150 RACK	SON 48V 12A MS150 RACK				
> Mains							
Mains voltage		198 to 264 V AC					
Frequency		45 to 65 Hz					
Power at full load	190 W	380 W	760 W				
Efficiency at full load	84%	87%	91%				
Efficiency at 20% of load	74%	82%	86%				
Neutral and earthing systems		TT, TN, IT					
Class		Class I					
> Output							
Floating voltage (U _n) set at half load and 25°C	27.2 V D	DC +/-0.5%	54.4 V DC +/-0.5%				
Nominal output rectifier current	6 A	12	Α				
Current limitation - short circuit current	U 27.3V 13.6V BA 5.3A	U 13.6V 12A 13.6A 1	U 54.4V 27.2V 12A 13.8A				
Peak to peak HF residual voltage (20 MHz-50 Ω)		< 4% of floating voltage					
RMS LF residual voltage		< 0.2% of floating voltage					
Static and dynamic regulation characteristics	< 5% of floating	for mains voltage and output load (from 10 to 90%)				
> Battery							
Cut-off threshold	21.6	V +/- 3%	43.2 V +/- 3%				
Internal impedance threshold of the battery fault	50 mΩ +/-10%	- 24 mΩ +/-10% if jumper in '50 position - 16 mΩ +/-10% if jumper in '75 position	'50' position				
Maximum current for all outputs drawn from the battery	40 A	*- 100 A if jumper in '50' position - 150 A if jumper in '75' position					
Minimum battery capacity	24 Ah		er is on '50' position r is on '75' position				
Maximum battery capacity	110 Ah	225	5 Ah				
Battery voltage compensation	within the battery manufacturer	If the battery output voltage mainta 's specifications over the entire oper cted or has short circuit, the battery v	rating temperature range.				
Internal rectifier consumption	140 mA	430 mA	290 mA				
> Connections							
Mains	2	.5 mm ² plug-in (IEC320) and lockabl	e				
Main outputs		16 mm² plug-in					
Auxiliary outputs		2.5 mm ² plug-in					
Battery output	16 mm² plug-in	50 mm ²	² plug-in				
Alarm outputs		1.5 mm² plug-in					
Temperature sensor		1.5 mm² plug-in					

* 2 current configurations are available depending on jumper position.

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	SON 24V 6A MS40 RACK	SON 24V 12A MS150 RACK	SON 48V 12A MS150 RACK			
> Protections	30N 24V 0A 101340 NACK	30N 24V 12A WI3130 RACK	30N 48V 12A W3130 RACK			
Against unintentional battery reverse	 At start-up: the battery is not connected During operation: the fuse F8 (5 x 20, rated:6.3 A, type T) on the power and control board blown At start-up: the battery is not connected During operation: the fuse F8 (5 x 20, rated:12.5A, type T) on the power and control board blown 					
Against battery wiring error	 - If battery voltage > 30 V +/-3%, - If battery voltage < 14 V +/-3%, 	the battery is not connected	 If battery voltage 60 V +/-3%, the battery is not connected If battery voltage 40 V +/-3%, the battery is not connected 			
Against output over-voltage	 Regulation problem: by switchi restarting cyclically. The thresho External: by transient voltage su 	ng off the power supply and old is 28.8 V +/-3%	 Regulation problem: by switching off the power supply and restarting cyclicall The threshold is 57.6 V +/-3% External: by transient voltage suppressor 			
> Fonctionnal characteristics						
Alarms and signalisations	mains fault		battery fault			
מווויז מווע אוקוומוואמנוטווא	Gr	Led indication:	ve			
	Fault if: - mains voltage threshold <185 V the charger has started - no primary fuse or fuse has blow - power supply is broken	een = Ok / Orange=Mains fault acti +/-5% as long as the charger has no wn				
Mains	 Fault if: mains voltage threshold <185 V the charger has started no primary fuse or fuse has blow power supply is broken internal temperature is too high Fault if: no battery high impedance on battery and battery voltage < 23.5 V +/-3% r 	een = Ok / Orange=Mains fault acti +/-5% as long as the charger has no wn its associated circuit				
Mains	 Fault if: mains voltage threshold <185 V the charger has started no primary fuse or fuse has blow power supply is broken internal temperature is too high Fault if: no battery high impedance on battery and battery voltage < 23.5 V +/-3% r Battery fault monitoring Detection of the presence/abse and every 15 min after (in norm every 30 seconds until no fault. Measurement of the impedance 	een = Ok / Orange=Mains fault acti +/-5% as long as the charger has no wn its associated circuit	Fault if: - no battery - high impedance on battery and its associated circuit - battery voltage < 47 V +/-3% mains present econds during the first 20 min ection, the test is repeated rcuit: 1 test every 4 hours the			
Mains	 Fault if: mains voltage threshold <185 V the charger has started no primary fuse or fuse has blow power supply is broken internal temperature is too high Fault if: no battery high impedance on battery and battery voltage < 23.5 V +/-3% r Battery fault monitoring Detection of the presence/abse and every 15 min after (in norm every 30 seconds until no fault. Measurement of the impedance 	een = Ok / Orange=Mains fault acti +/-5% as long as the charger has no wn its associated circuit mains present nce of the battery: 1 test every 30 so ial operation). As soon as a fault det e of the battery and its associated ci supply and if the power supply has a	Fault if: - no battery - high impedance on battery and its associated circuit - battery voltage < 47 V +/-3% mains present econds during the first 20 min ection, the test is repeated rcuit: 1 test every 4 hours the			
Mains Battery Output	 Fault if: mains voltage threshold <185 V the charger has started no primary fuse or fuse has blow power supply is broken internal temperature is too high Fault if: no battery high impedance on battery and battery voltage < 23.5 V +/-3% r Battery fault monitoring Detection of the presence/abse and every 15 min after (in norm every 30 seconds until no fault. Measurement of the impedance mains is present on the power seconds and the presence of the auxiliary of the second second seconds and the presence of the model of the model of the presence of the model of th	een = Ok / Orange=Mains fault acti +/-5% as long as the charger has no wn its associated circuit mains present nce of the battery: 1 test every 30 so al operation). As soon as a fault det e of the battery and its associated ci supply and if the power supply has a or main outputs fails y dry contacts free of potential (C-NG	Fault if: - no battery - high impedance on battery and its associated circuit - battery voltage < 47 V +/-3% mains present econds during the first 20 min ection, the test is repeated rcuit: 1 test every 4 hours the current < rectifier current.			
Mains Battery Output Alarm reports	 Fault if: mains voltage threshold <185 V the charger has started no primary fuse or fuse has blow power supply is broken internal temperature is too high Fault if: no battery high impedance on battery and battery voltage < 23.5 V +/-3% r Battery fault monitoring Detection of the presence/abse and every 15 min after (in norm every 30 seconds until no fault. Measurement of the impedance mains is present on the power seconds until and the presence fault: when one of the auxiliary of Each alarm can be transmitted by 	een = Ok / Orange=Mains fault acti +/-5% as long as the charger has no wn its associated circuit mains present nce of the battery: 1 test every 30 so al operation). As soon as a fault det e of the battery and its associated ci supply and if the power supply has a or main outputs fails y dry contacts free of potential (C-NG	Fault if: - no battery - high impedance on battery and its associated circuit - battery voltage < 47 V +/-3% mains present econds during the first 20 min ection, the test is repeated rcuit: 1 test every 4 hours the current < rectifier current.			
Alarms and signalisations Mains Battery Output Alarm reports > Mechanical characteristics Dimensions	 Fault if: mains voltage threshold <185 V the charger has started no primary fuse or fuse has blow power supply is broken internal temperature is too high Fault if: no battery high impedance on battery and battery voltage < 23.5 V +/-3% r Battery fault monitoring Detection of the presence/abse and every 15 min after (in norm every 30 seconds until no fault. Measurement of the impedance mains is present on the power seconds until and the presence fault: when one of the auxiliary of Each alarm can be transmitted by 1 A @ 24 V DC, 0.5 A @ 120 V AC Rack 19" (MS40): W 483 mm x H 88 	een = Ok / Orange=Mains fault acti +/-5% as long as the charger has no wn its associated circuit mains present nce of the battery: 1 test every 30 so al operation). As soon as a fault det e of the battery and its associated ci supply and if the power supply has a or main outputs fails y dry contacts free of potential (C-NG B mm (2U) x D 355 mm (with connector	Fault if: - no battery - high impedance on battery and its associated circuit - battery voltage < 47 V +/-3% mains present econds during the first 20 min ection, the test is repeated rcuit: 1 test every 4 hours the current < rectifier current. D-NC) allowing rrs) / 344 mm (without connectors			
Mains Battery Output Alarm reports > Mechanical characteristics	 Fault if: mains voltage threshold <185 V the charger has started no primary fuse or fuse has blow power supply is broken internal temperature is too high Fault if: no battery high impedance on battery and battery voltage < 23.5 V +/-3% r Battery fault monitoring Detection of the presence/abse and every 15 min after (in norm every 30 seconds until no fault. Measurement of the impedance mains is present on the power seconds until and the presence fault: when one of the auxiliary of Each alarm can be transmitted by 1 A @ 24 V DC, 0.5 A @ 120 V AC Rack 19" (MS40): W 483 mm x H 88 	een = Ok / Orange=Mains fault acti +/-5% as long as the charger has no wn its associated circuit mains present nce of the battery: 1 test every 30 so al operation). As soon as a fault det e of the battery and its associated ci supply and if the power supply has a or main outputs fails y dry contacts free of potential (C-NG	Fault if: - no battery - high impedance on battery and its associated circuit - battery voltage < 47 V +/-3% mains present econds during the first 20 min ection, the test is repeated rcuit: 1 test every 4 hours the current < rectifier current. D-NC) allowing rrs) / 344 mm (without connectors			

SLAT can change specifications on his products without prior notice.

ACCESS CONTROL AND VIDEO

WITH SLAT POWER SUPPLIES, YOUR ACCESS CONTROL REMAINS OPERATIONAL



Protecting people and property remains a major concern for all building managers. In fact, there were over 200,000 burglaries a year in a large country such as France, i.e. a burglary every 2 minutes. Damage to buildings represents twice this figure. And, it is estimated to represent only 11% of all acts of vandalism.

In the face of these threats, access control and intrusion protection equipment requires highperformance power supplies that meet **EN 50131-6 standards**. By integrating **video protection** into **access and intrusion** control functions, new power and data transmission requirements have emerged.

SLAT provides you with **the most reliable solutions** in the shortest possible time. We also offer service continuity solutions for IP-based systems.

SELECTION GUIDE

	ЯX	52	ЯX	53		FIT'IN		SDC-M RS	SDC-M IP	SDC- PoE
Standard	EN 50131	-6 grade 2	EN 50131	-6 grade 3		-		-	-	-
DC output voltage	12 V	24 V	12 V	24 V	12 V	24 V	48 V	12 V / 24 V / 48 V	12 V / 24 V	55 V
Current / Power	2 A / 5 A / 10 A	1 A / 2,5 A / 5 A	4 A / 6 A	2 A / 3 A	6 A / 12 A / 24 A / 32 A	3 A / 6 A / 12 A / 24 A	3 A / 6 A / 12 A	30 W / 55 W	55 W	55 W
Number of terminal outputs	1/3*/5* 2/4*/6*			2			1	1		
PoE/PoE+ ports					-			-	1	
Ethernet ports		-		-	-			-	2	1
Format	DIN / ca	rd / box	B	OX	Card			DIN / Box	DIN / Box	DIN
Battery technology	Le	ad	Le	ad	Lead			Lithium	Lithium	Lithium
	7 Ah	1,2 Ah	7 Ah	7 Ah				В	D	D
	12 Ah	7 Ah	12 Ah	12 Ah				D	G	G
Battery capacity	17 Ah	12 Ah	24 Ah	24 Ah	Compatible with batteries up		with batteries up	E		
	24 Ah	17 Ah	40 Ah		to 240 Ah	to 180 Ah	to 90 Ah	G		
	40 Ah	24 Ah								
Page	2	0	2	.5		38		113	113	109

* with option





Uninterruptible Power Supplies with battery - Intrusion / Access Control

12 V DC • 24 V DC

Complies with Standard: EN 50131 - 6 grade 2

"Alarm Systems, Intrusion and hold-up systems"

Communication by LED on the front panel • Dry Contact

The AXS2 Uninterruptible Power Supplies with battery provide permanent and backup power for Intrusion and Access Control installations.









Main functions

- \sim Resists short-circuits on load outlets
- \sim Controls and reports operating status
- \sim Resumes as soon as the mains returns
- \sim Opening and tamper contacts (on models with casing).

Benefits of the AXS2 range

- ∽ One independent fuse-protected load outlet
- \sim Optional: card with 3 feeders and 5 feeders
- \sim Dimensioned to operate 24/7 at rated power
- ∼ Built-in lightning protection.

 $C2\Lambda$

AB = With Battery SB = Without Battery

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
AXS2 12V			
AXS2 12V 2A DIN	0,2 kg	105 x 90 x 62	2720220000
AXS2 12V 2A C7 SB	1,0 kg	243 x 195 x 96	2720207000
AXS2 12V 2A C7 AB 7AH	4,0 kg	243 x 195 x 96	2720207007
AXS2 12V 2A C24 SB	2,0 kg	322 x 248 x 126	2720224000
AXS2 12V 2A C24 AB 12 AH	6,0 kg	322 x 248 x 126	2720224012
AXS2 12V 5A DIN	0,2 kg	105 x 90 x 62	2720520000
AXS2 12V 5A C7 SB	1,0 kg	243 x 195 x 96	2720507000
AXS2 12V 5A C7 AB 7AH	4,0 kg	243 x 195 x 96	2720507007
AXS2 12V 5A C24 SB	2,0 kg	322 x 248 x 126	2720524000
AXS2 12V 5A C24 AB 12 AH	6,0 kg	322 x 248 x 126	2720524012
AXS2 12V 5A C24 AB 24 AH	12,0 kg	322 x 248 x 126	2720524024
AXS2 12V 5A C34 SB	3,0 kg	367 x 352 x 108	2720517000
AXS2 12V 5A C34 AB 7AH	4,0 kg	367 x 352 x 108	2720517007
AXS2 12V 5A C34 AB 17AH	10,0 kg	367 x 352 x 108	2720517017
AXS2 12V 5A C38 SB	5,0 kg	289 x 350 x 189	2720538000
AXS2 12V 5A C38 AB 40AH	20,0 kg	289 x 350 x 189	2720538040
AXS2 12V 10A CG2	1,0 kg	125 x 177 x 68	2721002000
AXS2 12V 10A C34 SB	3,0 kg	367 x 352 x 108	2721017000
AXS2 12V 10A C34 AB 17AH	10,0 kg	367 x 352 x 108	2721017017
AXS2 12V 10A C38 SB	5,0 kg	289 x 350 x 189	2721038000
AXS2 12V 10A C38 AB 24 AH	15,0 kg	289 x 350 x 189	2721038024
AXS2 12V 10A C38 AB 40 AH	20,0 kg	289 x 350 x 189	2721038040
AX52 24V			
AXS2 24V 1A DIN	0,2 kg	105 x 90 x 62	2740120000
AXS2 24V 1A C7 SB	1,0 kg	243 x 195 x 96	2740107000
AXS2 24V 1A C7 AB 1,2AH	4,0 kg	243 x 195 x 96	2740107001
AXS2 24V 1A C24 SB	2,0 kg	322 x 248 x 126	2740124000
AXS2 24V 1A C24 AB 7 AH	8,0 kg	322 x 248 x 126	2740124007
AXS2 24V 2,5A DIN	0,2 kg	105 x 90 x 62	2740220000
AXS2 24V 2,5A C24 SB	2,0 kg	322 x 248 x 126	2740224000
AXS2 24V 2,5A C24 AB 7AH	8,0 kg	322 x 248 x 126	2740224007
AXS2 24V 2,5A C24 AB 12AH	10,0 kg	322 x 248 x 126	2740224012
AXS2 24V 2,5A C34 SB	3,0 kg	367 x 352 x 108	2740217000
AXS2 24V 2,5A C34 AB 7AH	9,0 kg	367 x 352 x 108	2740217007
AXS2 24V 2,5A C34 AB 17AH	17,0 kg	367 x 352 x 108	2740217017
AXS2 24V 2,5A C38 SB	5,0 kg	289 x 350 x 189	2740238000
AXS2 24V 2,5A C38 AB 24AH	25,0 kg	289 x 350 x 189	2740238024
AXS2 24V 5A CG2	1,0 kg	125 x 177 x 68	2740502000
AXS2 24V 5A C38 SB	5,0 kg	289 x 350 x 189	2740538000
AXS2 24V 5A C38 AB 24AH	17,0 kg	289 x 350 x 189	2740538024

> Ratings					
	20 W	60	W	125 W	
12 V DC	2 A	5	A	10 A	
24 V DC	1 A	2.5	5 A	5 A	
The currents (I _n) shown are a	at rated output power.				
> Standard-based specificat	ions				
Safety	EN 62368-1				
EMC - Immunity	EN 61000-6-1 • EN 61000-6-2				
EMC - Emission	EN 61000-6-3 • EN 61000-6-4 • EN 5	5032 class B			
Trade	EN 50131 - 6 Grade 2 (models with ca or the unit is removed from the wall)	asing: a switch with	a wired contact lo	op detects when the cover is opene	
Environment	This product range meets the environ	imental requiremen	nts of ISO 14001, R	oHS and WEEE standards.	
> Environmental specification	ons				
Humidity	in operatio	n: relative humidity	/ 20% to 95% non-o	condensing	
Storage temperature		-25 °C to	o +85 °C		
	75% of load			-10°C to +60°C	
Working temperature	100% of load		-10°C to +55°C		
Altitude	Above 2,000 m, the	e maximum temper	rature decreases by	75% every 1,000 m	
Working life	200,000 ho	urs at 25°C for exter	rnal atmosphere ar	nd 75% load	
> Input specifications					
Voltages		198 to 264 V A	C single-phase		
Frequency		45 to	65 Hz		
Neutral system		TT - T	N - IT		
Inrush current		limited	by CTN		
Upstream circuit breaker recommended		Bipolar	curve D		
Class		Clas	ss I		
	20 W	60	W	125 W	
Primary current @ 198 V	0.17 A	0.4	5 A	1 A	
Converter					
At 20% load	70% 79		1%	83%	
At rated load	82%	84	.%	88%	
> Output specifications					
Rated voltage	12 V DC		24 V DC		
Floating voltage (U _n) set at half-load and 25°C	13.6 V		27.2 V		
Current limitation	l _n				

AXS2 DATASHEET

> For reliable output voltag	je							
Protection against external attack	 Resistance to all types of external aggressions: Overvoltages encountered on the mains network (lightning, industrial, isolation fault on impedance-earthed neutral system, etc.) Short-circuit on the primary power supply by a slow-blow fuse on the phase. Differential mode shock waves by varistor and fuse. Battery polarity inversions. Overcurrents and short-circuits at secondary. Short-circuit inside the product, protected by primary fuse. 							
Charger current limitation control	 Output current limitation allows a charging cycle to b Protects the product completely from short-circuits The selectivity of the protective devices is guarantee 	on the installation.						
High-performance regulation and filtering	 Particularly efficient output voltage regulation. Dynamic regulation < 5% U_n for cumulative variations of the mains voltage and the load (from 10% to 90%). Enhanced filtering which eliminates all interference and reduces the residual ripple on the DC output. Battery capacity preserved and a guarantee of optimum system operation. LF rms ripple voltage < 0.2% U_n. HF ripple voltage (20 MHz-50 Ω) < 4% U_n. N.B.: the AXS2 range can work without a battery and be used connected directly to the mains. 							
> For emergency power sou	urce control							
System control	 Monitoring of: The status of fuses, mains, battery. Battery voltage. Its operating status. 							
Battery charge management	 This function is essential for reaching the design life and to ensure optimum operation of the battery. The load voltages are factory set for "sealed" recombination-type lead acid batteries. They are consistent with the battery manufacturers' recommendations. 							
> For optimal communicati	on							
Display and remote reporting of the information	 Mains or rectifier fault (1 dry contact) Low voltage battery fault (1 dry contact) 							
On motherboard	A LED on the motherboard indicates the operational state before the cabinet is closed. Signals: - All OK: green - Faults: orange							
	20 W - 60 W	125 W						
Communication	Dry contacts (failsafe): 1 A @ 24 V DC, 0.3 A @ 125 V AC. There are a total of 3 dry contacts: - mains or rectifier - battery voltage - cover opening and wall detachment are grouped on one tamper dry contact.	 Dry contacts (failsafe): 1 A @ 24 V DC, 0.3 A @ 125 V AC. There are a total of 2 dry contacts: mains, rectifier, battery voltage are grouped on one dry contact. cover opening and wall detachment are grouped on one tamper dry contact. 						

AXS2 DATASHEET

> Connection specifications									
Screw terminal	0.2 to 2.5 mm ²								
> Options									
Kit 2 x 5 outputs (fuse protected) (only for the C34 version)	 Board to be installed by the customer. Secured by 4 clips. Connectors with 2.5 mm² screw terminals. 5 x 20 fuse, rating 4 A. 								
> Mechanical characteristics	;								
Version	Size W X H X D (mm)		IP	Base		Cover			
DIN	105 x 90 x 62		IP10	ABS		ABS			
CG2	125 x 231 x 73		-	Metal		Protective grille			
С7	243 x 195 x 96		IP30	Metal, RAL 9	006	ABS RAL 9003			
C24	322 x 248 x 126		IP30	Metal, RAL 9	006	ABS RAL 9003			
C34	367 x 352 x 108		IP30	Metal, RAL 9	006	Metal, RAL 7035			
C38	289 x 350 x 189		IP31	Metal, RAL 7035		Metal, RAL 7035			
> Types of battery cabinet									
Cabinet	Туре		12 \	/ DC		24 V DC			
DIN	DIN rail			-		-			
CG2	DIN rail		-			-			
C7	Wall-mounted		7 Ah			1.2 Ah			
C24	Wall-mounted		7 Ah, 12 Ah, 24 Ah (2 x 12 Ah)		7 Ah, 12 Ah				
C34	Wall-mounted		7 Ah,	7 Ah, 17 Ah		7 Ah, 17 Ah			
C38	Wall-mounted & floor-mo	ounted	17 Ah, 24 Ah, 38 Ah			17 Ah, 24 Ah			
> C34 configuration									
Configuration			Space for customer equipment available (mm)						
Two 7 Ah batteries				210 >	k 170				
One 17 Ah battery	ttery			310 x 170					
One 17 Ah battery + two 5-o	utput boards (fuse protected	I)	140 x 170						

SLAT can change specifications on his products without prior notice.



Emergency power supplies with battery - Intrusion / Access Control

12 V DC • 24 V DC

AXSE

Certified as per Standard: EN 50131 – 6 grade 3

"Alarm Systems, Intrusion and hold-up systems" VdS Approval (12V models) Certificates can be downloaded from www.slat.com



Communication by LED on the front panel • Dry Contact*

The AXS3 emergency power supplies with battery provide permanent and backup power for Intrusion / Access Control installations.

* This range is also available with RS485 serial link.





289 x 350 x 189 mm



CODE

Benefits of the AXS3 range

- \sim Two independent fuse-protected load outlets
- \sim Optional: card with 3 feeders and 5 feeders
- \sim Dimensioned to operate 24/7 at rated power
- \sim Built-in lightning protection

SIZE W x H x D (mm)

- \sim Resumes as soon as the mains returns.

Main functions

- \sim Controls and reports operating status
- \sim Monitors battery presence and impedance (aging)
- \sim Protects the battery from temperature variations
- \sim Protects the battery at end of discharge
- \sim Opening and tamper contacts

AB = With Battery SB = Without Battery

MODEL WEIGHT (kg)

AXS3 12V			
AXS3 12V 4A C24 SB	2,0 kg	322 x 248 x 126	2620424000
AXS3 12V 4A C24 AB 7 AH	5,0 kg	322 x 248 x 126	2620424007
AXS3 12V 4A C24 AB 12 AH	6,0 kg	322 x 248 x 126	2620424012
AXS3 12V 4A C38 SB	5,0 kg	289 x 350 x 189	2620438000
AXS3 12V 4A C38 SB + 5 DEP	5,0 kg	289 x 350 x 189	2620438999
AXS3 12V 4A C38 AB 24AH	15,0 kg	289 x 350 x 189	2620438024
AXS3 12V 6A C24 SB	2,0 kg	322 x 248 x 126	2620624000
AXS3 12V 6A C24 AB 7Ah	5,0 kg	322 x 248 x 126	2620624007
AXS3 12V 6A C24 AB 12 AH	6,0 kg	322 x 248 x 126	2620624012
AXS3 12V 6A C38 SB	5,0 kg	289 x 350 x 189	2620638000
AXS3 12V 6A C38 SB + 5 DEP	5,0 kg	289 x 350 x 189	2620638999
AXS3 12V 6A C38 AB 24AH	15,0 kg	289 x 350 x 189	2620638024
AXS3 12V 6A C38 AB 40AH	20,0 kg	289 x 350 x 189	2620638040
AXS3 12V 6A C85 SB	8,0 kg	408 x 408 x 224	2620685000
AXS3 24V			
AXS3 24V 2A C24 SB	2,0 kg	322 x 248 x 126	2640224000
AXS3 24V 2A C24 AB 7 AH	8,0 kg	322 x 248 x 126	2640224007
AXS3 24V 2A C38 SB	5,0 kg	289 x 350 x 189	2640238000
AXS3 24V 2A C38 SB +5 DEP	5,0 kg	289 x 350 x 189	2640238999
AXS3 24V 2A C38 AB 24 AH	25,0 kg	289 x 350 x 189	2640238024
AXS3 24V 3A C24 SB	2,0 kg	322 x 248 x 126	2640324000
AXS3 24V 3A C24 AB 7 AH	8,0 kg	322 x 248 x 126	2640324007
AXS3 24V 3A C24 AB 12 AH	10,0 kg	322 x 248 x 126	2640324012
AXS3 24V 3A C38 SB	5,0 kg	289 x 350 x 189	2640338000
AXS3 24V 3A C38 SB +5 DEP	5,0 kg	289 x 350 x 189	2640338999
AXS3 24V 3A C38 AB 24 AH	25,0 kg	289 x 350 x 189	2640338024
AXS3 24V 3A C85 SB	8,0 kg	408 x 408 x 224	2640385000
OPTIONS			
OPTION KIT 3 DEPARTS FUSIBLES	-	-	9900080000
OPTION CARTE 5 DEPARTS FUSIBLES	-	-	9059050004

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> Ratings									
	50 W	75 W							
12 V DC	4 A	6 A							
24 V DC	2 A	3 A							
The currents (I _n) shown are a	at rated output power.								
> Standard-based specificat	ions								
Safety	N 62368-1								
EMC - Immunity	EN 61000-6-1 • EN 61000-6-2								
EMC - Emission	EN 61000-6-3 • EN 61000-6-4 • EN 55032 class B								
Trade	EN 50131 - 6 grade 3								
Environment	This product range meets the environmental requirement	s of ISO 14001, RoHS and WEEE standards.							
Certification VdS	VdS 2115								
> Environmental specification	ons								
Humidity	while working: relative humidity	20% to 95% (non-condensing)							
Storage temperature	-25°C to) +85°C							
	Power	50 W - 75 W							
Working temperature	75% of load	-10°C to +60°C							
	100% of load	-10°C to +55°C							
Altitude	Above 2,000 m, the temperature	decreases by 5% every 1,000 m							
Working life	200,000 hours at 25°C for exter	nal atmosphere and 75% load							
> Input specifications									
Voltage	99 to 264 V AC	C single phase							
Frequency	45 to (65 Hz							
Neutral system	TT - TI	N - IT							
Switch-on current	limited	by CTN							
Upstream circuit breaker required	Bipolar	curve D							
Class	Clas	55 I							
	50 W	75 W							
Primary current @ 195 V	0.51 A (12 V) - 0.52 A (24 V)	0.76 A (12 V) - 0.78 A (24 V)							
Primary current @ 99 V	1 A (12 V) - 0.98 A (24 V)	1.63 A (12 V) - 1.5 A (24 V)							
Efficiency	50 W	75 W							
At 20% load	85% 85%								
At rated load	88%	90%							
> Output specifications									
Rated voltage	12 V DC - 24 V DC	12 V DC - 24 V DC							
Floating voltage (U _n) set at half-load and 25°C	13.6 V (12 V) - 27.2 V (24 V)	13.6 V (12 V) - 27.2 V (24 V)							
Short-circuit current limitation	From I_n to I_n +15% for our	tput voltage > 50% of U _n							

AXS3 DATASHEET

> For reliable output voltage	e
Protection against external attack	 Resistance to all types of external aggressions: Overvoltages encountered on the mains network (lightning, industrial, isolation fault on impedance-earthed neutral system, etc.) Short-circuit on the primary power supply by a slow-blow fuse on the phase. Differential mode shock waves by varistor and fuse. Battery polarity inversions. Overvoltages on secondary. Overcurrents and short-circuits at secondary. Short-circuits inside the product, protected by primary fuse. Increases in external temperatures (outside the specified range)
Charger current limitation control	 Output current limitation allows a charging cycle to be started with a discharged battery. Protects the product completely from short-circuits on the installation. Protection selectivity is provided by fuses on each load output and the battery fuse.
High-performance regulation and filtering	 Particularly efficient output voltage regulation Dynamic regulation < 5% of U_n for cumulative variations of the mains and the load (from 10% to 90%). Enhanced filtering, which eliminates all interference and reduces the ripple on the DC output voltage. Battery capacity preserved and a guarantee of optimum system operation. LF rms ripple < 0.2% U_n. HF ripple (20 MHz-50 Ω) < 4% U_n. Note: The AXS3 and AXRS ranges can operate without battery and may be used as a direct power supply.
> For emergency power sou	
System control	 Monitoring of: The status of mains, battery and load fuses. Battery voltage. Its operating status. Mains voltage present in the correct operating range.
Battery charge management	 This function is essential for reaching the design life and to ensure optimum operation of the battery. The load voltages are factory set for "sealed" recombination-type lead acid batteries. They are consistent with the battery manufacturers' recommendations. The charger features battery charging current limitation. Supplying power to the load takes priority over battery charging. The battery current limit is adjustable by the customer depending on the battery capacity to ensure recharge between 0.1 and 0.3C recommended by the manufacturers. The thresholds are 25%, 50% and 75% of rated current. The selection is made by 2 microswitches. The default load current is 75% of rated current. A battery voltage compensation system maintains the charge characteristics within the limits specified by the battery manufacturer range. A probe placed close to the batteries measures the temperature thereof.
Battery backup	 Automatic disconnection of the battery at end of discharge to preserve its future capacity. Prevents excessively deep discharge that can permanently downgrade performance (cut-out threshold 1.8V/cell). An alarm is sent before disconnection (Pre-cut alarm threshold 1.85 V/ cell). In autonomous operation, up to the cut-off threshold, the design of the SLAT unit significantly limits the charger's own consumption on the battery. This allows your application to take full advantage of the battery's capacity.

> Charger consumption on the battery						
	12 V DC	24 V DC				
50 W	31.5 mA	38.5 mA				
75 W	31.5 mA	38.5 mA				
 For optimal communication 						
Orange Green Green Display and remote reporting of the information	failure orange LED if fault, green otherwise. s during the first 20 minutes after start-up and ected, the test is conducted every 30 seconds, lisappears). 4 hours maximum on a charged battery). cover is opened or the unit is removed from the					
	wall.					
On motherboard	 A LED on the motherboard indicates the operational status before the cabinet is closed (displ board not connected) or when no display board exists. Signals: All OK: green Faults: red 					
Alarms	The 3 faults (mains, battery, output) are reported of Dry contact: 1A @ 24 V DC, 0.3A @ 125 V AC. An additional tamper dry contact is provided, grou					
Communication AXRS* Alarms Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q						
> Connection specifications	50 W -	75 W				
Mains	1x3pin/0.2 - 2	5 mm²/15 A				
Batteries	1x2pin/0.2 - 2	5 mm²/15 A				
.oad (2 outputs)	1x2pin/0.2 - 2.5 mm²/15 A					
1x9pin/0.2 - 1.5 mm ² /14.5 A						

Mains





Communication

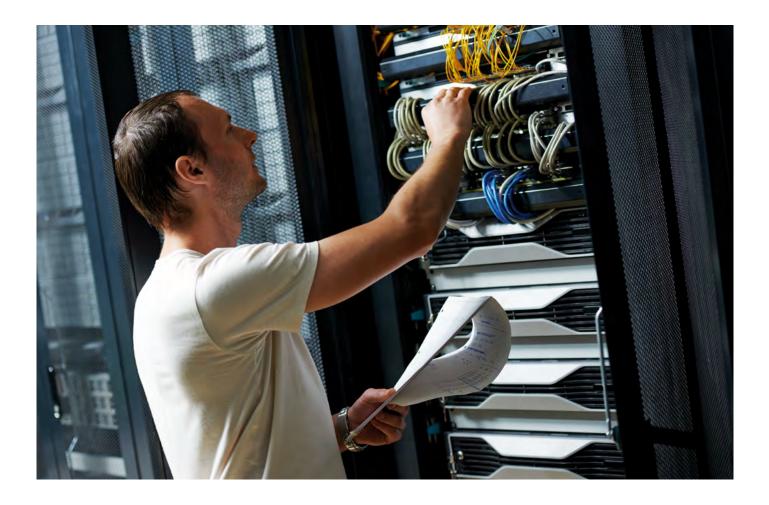
AXS3 DATASHEET

. Outland								
> Options								
 Customer installable Printed Circuit Board. Secured by 4 clips on the motherboard. Connectors with 2.5 mm² screw terminals. 5 x 20 fuse, rating 4 A. 								
> Cabinet characteristics								
Cabinet	Dimension W x H x D (mm)		IP	Base		Cover		
C24	322 x 248 x 126		IP30	Metal, RAL 9	006	ABS RAL 9003		
C38	289 x 350 x 189		IP31	Metal, RAL 7	035	Metal, RAL 7035		
C85	408 x 408 x 224		IP31	Metal, RAL 7	035	Metal, RAL 7035		
> Types of battery cabinet								
Cabinet	Туре		12 \	V DC		24 V DC		
C24	Wall-mounted		7 Ah, 12 Ah, 24	4 Ah (2 x 12 Ah)		7 Ah, 12 Ah		
C38	Wall-mounted & Floor-mo	ounted	17 Ah, 24	Ah, 38 Ah		17 Ah, 24 Ah		
C85	48 Ah (2 x 24 Ah), Wall-mounted & Floor-mounted 65 Ah (3 x 12 Ah), 80 Ah, 96 Ah (4 x 24 Ah)							
> Associated battery capacit	ies							
Charger voltage	12 V	/ DC			24 \	/ DC		
Charger ratings	4 A		6 A	2 A		3 A		
Maximum battery charging current	3 A	4.5 A 1.5 A 2.25 A				2.25 A		
Maximum capacity C20 - 1.75 V	50 Ah	86 Ah 26 Ah 40 Ah						
Minimum capacity C20 - 1.75 V	7 Ah		7 Ah	7 Ah		7 Ah		

SLAT can change specifications on his products without prior notice.

COMMUNICATION

THE QUALITY OF YOUR VDI SERVICES IS BETTER WITH SLAT POWER SUPPLIES



Modern buildings are wired to transit the ever-increasing amount of information we exchange. With less than an average of 6 hours of downtime a year, we might think that our power grid is enough to power our entire communication infrastructure. However, the reality is different. The network is strongly degraded in our buildings by the powerful elevator or air-conditioning motors, the switching operations of the electrical network's protection components or the disturbances generated by new wireless applications.

For 30 years, SLAT power supplies for **voice**, **data and image applications** have been tracking technological changes to provide the best filtering and continuity of power for a quality communication service.



SELECTION GUIDE

	E	VOLUTION		ſ	sw2 IL	•	SDC-PoE	SDC-PoE 8	SDC-PoE 24
DC output voltage	12 V	24 V	48 V	12 V	24 V	48 V	55 V	-	-
Current / Power	6 A/8 A/12 A/ 16 A/24 A/32 A /48 A	3 A / 4 A / 6 A / 8 A / 12 A / 16 A / 24 A	2 A / 3 A / 4 A / 6 A / 8 A / 12 A	24 A / 48 A	12 A / 24 A	6 A / 12 A	55 W	180 W	210 W
Number of terminal outputs		2/4*/6*			5		1	-	-
PoE/PoE+ ports		-			-		1	8	Up to 22
HiPoE ports		-			-		-	4	-
Ethernet ports		-			1		1	-	-
SFP Ports		-			-		-	2	Up to 4
Dry contact		3			-		1	1	-
HMI		4 LEDs			Display		4 LEDs	18 LEDs	68 LEDs
IP Communication (SNMP)		-		Yes		Yes	Yes	Yes	
Format		Box or Rack		Rack		DIN	DIN	Rack	
Battery technology		Lead			Lead		Lithium	Lithium	Lithium
Battery control/ protection		Yes			Yes		Yes	Yes	Yes
	W	/ithout battery		Compatibl	e with batt	eries up to	D	F	F
Battery capacity	7 Ah 12 Ah 17 Ah 24 Ah 36 Ah 38 Ah 48 Ah 65 Ah 80 Ah 96 Ah 120 Ah 130 Ah 140 Ah	7 Ah 12 Ah 17 Ah 24 Ah 38 Ah 48 Ah 65 Ah 80 Ah 120 Ah 130 Ah 170 Ah	2,1 Ah 7 Ah 12 Ah 17 Ah 24 Ah 38 Ah 65 Ah 80 Ah	320 Ah	140 Ah	80 Ah	G		L
Page		32			42		109	117	122

*with option





Emergency power supplies with batteries - Multi-Applications

12 V DC • 24 V DC • 48 V DC

Main functions

 \sim Resists short-circuits on load outlets

 \sim Monitors battery presence

as the mains returns

 \sim Controls and reports operating status

 \sim Protects the battery at end of discharge

 \sim The installation is available as soon



Communication by LED on the front panel • Dry Contact

The EVOLUTION Emergency power supplies with batteries provide permanent and backup power for all installations.



Benefits of the EVOLUTION range

- \sim Two independent fuse-protected load outlets
- \sim Optional: 3 feeder or 5 feeder printed circuit board
- \sim Optional: parallel or redundancy box
- \sim Dimensioned to operate 24/7 at rated power
- \sim Built-in lightning protection

AB = With battery
SB = Without battery

MODEL	WEIGHT (kg)	SIZE W x H x D	CODE
EVOLUTION 12V		-	
EV 12V 6A C24 SB	2,0 kg	322 x 248 x 126	1520624000
EV 12V 6A C24 AB 7AH	5,0 kg	322 x 248 x 126	1520624007
EV 12V 6A C24 AB 12 AH	6,0 kg	322 x 248 x 126	1520624012
EV 12V 6A C24 AB 24 AH	12,0 kg	322 x 248 x 126	1520624024
EV 12V 6A C38 SB	5,0 kg	289 x 350 x 189	1520638000
EV 12V 6A C38 AB 40AH	20,0 kg	289 x 350 x 189	1520638040
EV 12V 8A C24 SB	2,0 kg	322 x 248 x 126	1520824000
EV 12V 8A C24 AB 12 AH	6,0 kg	322 x 248 x 126	1520824012
EV 12V 8A C24 AB 24 AH	12,0 kg	322 x 248 x 126	1520824024
EV 12V 8A C38 SB	5,0 kg	289 x 350 x 189	1520838000
EV 12V 8A C38 AB 40AH	20,0 kg	289 x 350 x 189	1520838040
EV 12V 8A F3U	3,0 kg	482 x 132 x 110	1520830000
EV 12V 12A C6	1,0 kg	194 x 243 x 97	1521207000
EV 12V 12A F3U	3,0 kg	482 x 132 x 110	1521230000
EV 12V 16A C23	2,0 kg	248 x 322 x 126	1521624000
EV 12V 16A C85 SB	10,0 kg	408 x 408 x 224	1521685000
EV 12V 16A C85 AB 65AH	34,0 kg	408 x 408 x 224	1521685065
EV 12V 16A RACK	3,0 kg	483 x 132 x 235	1521630000
EV 12V 24A C23	2,0 kg	248 x 322 x 126	1522424000
EV 12V 24A RACK	3,0 kg	483 x 132 x 235	1522430000
EV 12V 32A C23	2,0 kg	248 x 322 x 126	1523224000
EV 12V 48A C180 SB	20,0 kg	505 x 610 x 430	1524818000
EV 12V 48A RACK	4,0 kg	483 x 132 x 395	1524830000
EVOLUTION 24V			
EV 24V 3A C24 SB	2,0 kg	322 x 248 x 126	1540324000
EV 24V 3A C24 AB 7 AH	8,0 kg	322 x 248 x 126	1540324007
EV 24V 3A C38 SB	5,0 kg	289 x 350 x 189	1540338000
EV 24V 3A C38 AB 24 AH	25,0 kg	289 x 350 x 189	1540338024

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MODEL			CODE
	WEIGHT (kg)	SIZE W x H x D	CODE
EVOLUTION 24V (
EV 24V 4A C24 SB	2,0 kg	322 x 248 x 126	1540424000
EV 24V 4A C24 AB 7 AH	8,0 kg	322 x 248 x 126	1540424007
EV 24V 4A C24 AB 12 AH	10,0 kg	322 x 248 x 126	1540424012
EV 24V 4A C38 SB	5,0 kg	289 x 350 x 189	1540438000
EV 24V 4A C38 AB 24 AH	25,0 kg	289 x 350 x 189	1540438024
EV 24V 6A C6	1,0 kg	194 x 243 x 97	1540607000
EV 24V 6A C24 SB	2,0 kg	322 x 248 x 126	1540624000
EV 24V 6A C24 AB 12 AH	10,0 kg	322 x 248 x 126	1540624012
EV 24V 6A C38 SB	5,0 kg	289 x 350 x 189	1540638000
EV 24V 6A C38 AB 17Ah	17,0 kg	289 x 350 x 189	1540638017
EV 24V 6A C38 AB 24 AH	25,0 kg	289 x 350 x 189	1540638024
EV 24V 6A F3U	3,0 kg	483 x 132 x 110	1540630000
EV 24V 8A C23	2,0 kg	248 x 322 x 126	1540824000
EV 24V 8A C48 SB	9,0 kg	425 x 345 x 120	1540848000
EV 24V 8A C48 AB 24 AH	29,0 kg	425 x 345 x 120	1540848024
EV 24V 8A C85 SB	10,0 kg	408 x 408 x 224	1540885000
EV 24V 8A C85 AB 40AH	40,0 kg	408 x 408 x 224	1540885040
EV 24V 8A RACK	3,0 kg	483 x 132 x 235	1540830000
EV 24V 12A C23	2,0 kg	248 x 322 x 126	1541224000
EV 24V 12A C48 SB	9,0 kg	425 x 345 x 120	1541248000
EV 24V 12A C48 AB 24 AH	29,0 kg	425 x 345 x 120	1541248024
EV 24V 12A C85 SB	10,0 kg	408 x 408 x 224	1541285000
EV 24V 12A C85 AB 40AH	40,0 kg	408 x 408 x 224	1541285040
EV 24V 16A C23	2,0 kg	248 x 322 x 126	1541624000
EV 24V 16A C48 SB	9,0 kg	425 x 345 x 120	1541648000
EV 24V 16A C48 AB 24 AH	29,0 kg	425 x 345 x 120	1541648024
EV 24V 16A C180 SB	20,0 kg	505 x 610 x 430	1541618000
EV 24V 16A C180 AB 65AH	68,0 kg	505 x 610 x 430	1541618065
EV 24V 16A C180 AB 90AH	80,0 kg	505 x 610 x 430	1541618090
EV 24V 16A RACK	3,0 kg	483 x 132 x 235	1541630000
EV 24V 24A C23	2,0 kg	248 x 322 x 126	1542424000
EV 24V 24A C180 SB	20,0 kg	505 x 610 x 430	1542418000
EV 24V 24A RACK	3,0 kg	483 x 132 x 235	1542430000
EVOLUTION 48V			
EV 48V 2A C24 SB	2,0 kg	322 x 248 x 126	1580224000
EV 48V 2A C24 AB 2,1 AH	6,0 kg	322 x 248 x 126	1580224002
EV 48V 3A C6	1,0 kg	194 x 243 x 97	1580307000
EV 48V 3A C38 SB	5,0 kg	289 x 350 x 189	1580338000
EV 48V 3A C38 AB 12AH	21,0 kg	289 x 350 x 189	1580338012
EV 48V 4A C23	2,0 kg	248 x 322 x 126	1580424000
EV 48V 4A C48 SB	9,0 kg	425 x 345 x 120	1580448000
EV 48V 4A C48 AB 12AH	25,0 kg	425 x 345 x 120	1580448012
EV 48V 4A RACK	3,0 kg	483 x 132 x 235	1580430000
EV 48V 6A C23	2,0 kg	248 x 322 x 126	1580624000
EV 48V 6A C48 SB	9,0 kg	425 x 345 x 120	1580648000
EV 48V 6A C48 AB 12AH	25,0 kg	425 x 345 x 120	1580648012
EV 48V 6A C85 SB	10,0 kg	408 x 408 x 224	1580685000
EV 48V 6A C85 AB 24AH	50,0 kg	408 x 408 x 224	1580685024
EV 48V 8A C23	2,0 kg	248 x 322 x 126	1580824000
EV 48V 8A C48 SB	9,0 kg	425 x 345 x 120	1580848000
EV 48V 8A C48 AB 12AH	25,0 kg	425 x 345 x 120	1580848012
EV 48V 8A RACK	3,0 kg	483 x 132 x 235	1580830000
EV 48V 12A C23	2,0 kg	248 x 322 x 126	1581224000
EV 48V 12A C180 SB	20,0 kg	505 x 610 x 430	1581218000
EV 48V 12A C180 AB 65AH	116,0 kg	505 x 610 x 430	1581218065
EV 48V 12A RACK	3,0 kg	483 x 132 x 235	1581230000
OPTIONS			
OPTION KIT 3 DEPARTS FUSIBLES	-	-	9900080000
OPTION CARTE 5 DEPARTS FUSIBLES	-	-	9059050004
A RK TCR -COMMUN	4,8 kg	485 x 44 x 430	9189000002

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> Ratings								
	75 W	100 W	150 W	200 W	300 W	400 W	600 W	
12 V DC	6 A	8 A	12 A	16 A	24 A	32 A	48 A	
24 V DC	3 A	4 A	6 A	8 A	12 A	16 A	24 A	
48 V DC	-	2 A	3 A	4 A	6 A	8 A	12 A	
The currents (I _n) shown are a	at rated output po	ower.						
> Standard-based specificat								
Safety	EN 62368-1							
EMC - Immunity	EN 61000-6-1 •	EN 61000-6-2						
EMC - Emissions	EN 61000-3-2 • EN 61000-6-3 • EN 61000-6-4 • EN 55032 class B							
Environmental	This product range complies with the environmental policy (ISO 14001, RoHS and WEEE). CE $\overbrace{\text{RoHS}}$							
> Environmental specification	ons							
Relative humidity					nsing relative hunsing relative hur			
Storage temperature				-25°C to +85°C				
Operating temperature	Efficiency 75 W - 100 W			150 W - 600 W				
	75% of load		-5°C t	-5°C to +50°C		-5°C to +50°C		
	100% of load -5°C to +50°C -5°C to +40°C							
Altitude		Above 2,000	m, the maximun	n temperature de	ecreases by 5% e	very 1,000 m		
Service life	50,	000 h at 25°C (e	xternal environn	nent) and 75% of	fload, product in	stalled in a cabir	net	
> Input characteristics								
Voltage			99 to	264 V AC single-	phase			
Frequency				45 to 65 Hz				
Neutral systems				TT - TN - IT				
Inrush current				limited by CTN				
Upstream circuit breaker to be provided				Bipolar D curve				
Class	Class I							
Note: For the 100 W - 150 W range:	198 to 264 V AC						1	
	75 W	100 W	150 W	200 W	300 W	400 W	600 W	
Mains consumption @198 V	0.5 A	0.75 A	1 A	1.5 A	2 A	3 A	4 A	
Output	75 W	100	W - 150 W	200 V	V - 300 W	00 W 400 W - 600 W		
Efficiency at 20% load	71%		75%		84%		85%	
Efficiency at rated load	85%		84%		90%		91%	
> Output characteristics								
Rated voltage	12	V DC		24 V DC		48 V DC		
Floating voltage (U _n) set at half-load and at 25°C	13.6 V +/-0.5% 27.2		V +/-0.5%		54.4 V +/-0.5%			
Adjustment range in power supply mode only	12 V - 14 V 23 V - 29 V 46 V - 58 V							
Charger current limitation				I _n				

> For reliable output volta	age		
Protection against external aggressions	neutral system).	mains network (lightning, industrial, iso supply by a slow blow fuse on the phas varistor and fuse. secondary. rotected by primary fuse.	
Charger current limitation	Completely protects the product fr	harge cycle to be started on an empty om short-circuits on the installation. fuses on each load output and the bat	
High performance filtering and regulation	 Enhanced filtering that eliminates all Battery capacity preserved and the gu LF rms ripple < 0.2% of U_n HF ripple (20 MHz-50 Ω) < 4% of U_n 	cumulative variations of the mains and Il noise and reduces the ripple on the I arantee of optimum system operation.	DC output.
> For the control of the e	mergency power source		
System control	 Monitoring of: The status of mains, battery and load Battery presence or absence. The temperature inside the cabinet Battery voltage and its operating st Mains voltage present in the correct 	t (200 W to 600 W). atus.	
Battery charge management		e current limitation.	
Battery backup	 Prevents deep discharge that can pe A report is sent before disconnection Very low internal comsumption. 	tery at end of discharge to preserve its ermanently downgrade performance (cu on (Pre-cut-off alarm threshold 1.85 V/o e full advantage of the battery's capacity	t-off threshold 1.8 V/cell +/- 0.5%). cell +/-0.5%).
> Charger consumption o	n the battery during autonomy		
	12 V DC	24 V DC	48 V DC
75 W	32 mA	39 mA	-
100 W - 150 W	49 mA	75 mA	85 mA
200 W - 300 W	65 mA	45 mA	37 mA
400 W - 600 W	141 mA	106 mA	73 mA

	on					
		 Mains: Presence indicated by a green LED. Remote reporting by dry contact with delay (failsafe). 				
SECTEUR MAINS CHARCEUR CHARCEUR CHARCEUR SOTTER DATTERIE BATTERIE	Charger fat Remote rep Output: Voltage pre If either of	 Correct operation indicated by a green LED. Charger fault if mains fuse is out of order or not present, or if product is out of order. Remote reporting by dry contact with delay (failsafe). 				
	- Battery:	 Battery: Presence indicated by a green LED. 				
Displaying and remote repor the information	 Duttery idd installation Voltage of Remote rej Comment: In the case of No fault: gree Mains fault: of Battery or ch Internal sig A LED on the not connected Signals: All OK: gree Mains fault Battery or ch 	orange larger fault, or output load not preser g naling on the motherboard e motherboard indicates operatio ed). en	voltage < 1.85 V/cell in aut flashing orange LED (auton (failsafe). accomplished by a single indica nt: red (this fault takes priority nal status before the cabine	onomous mode. omous mode). tor light: over a mains fault).		
	(this iduit t					
Connection specifications						
-	75 \\/	100 W/ - 150 W/	200 \W = 200 \W	400 W/ - 600 W/		
Screw terminal	75 W	100 W - 150 W	200 W - 300 W	400 W - 600 W		
crew terminal Nains	2.5 mm ²	2.5 m	1m ²	2.5 mm ²		
crew terminal Aains Batteries	2.5 mm ² 2.5 mm ²	2.5 m 6 mi	nm ²	2.5 mm ² 10 mm ²		
Screw terminal Mains Batteries Load (2 outputs)	2.5 mm ² 2.5 mm ² 2.5 mm ²	2.5 m 6 mi 6 mi	1m ² m ²	2.5 mm ² 10 mm ² 10 mm ²		
Screw terminal Mains Batteries Load (2 outputs) Alarm reports* *the alarm report connector	2.5 mm ² 2.5 mm ² 2.5 mm ² 1.5 mm ²	2.5 m 6 mi	1m ² m ²	2.5 mm ² 10 mm ²		
Screw terminal Mains Batteries Load (2 outputs) Alarm reports* *the alarm report connector Note: the battery and 12 V/48 A load	2.5 mm ² 2.5 mm ² 2.5 mm ² 1.5 mm ²	2.5 m 6 mi 6 mi	1m ² m ²	2.5 mm ² 10 mm ² 10 mm ²		
Screw terminal Mains Batteries Load (2 outputs) Alarm reports* *the alarm report connector Note: the battery and 12 V/48 A load > Options	2.5 mm ² 2.5 mm ² 2.5 mm ² 1.5 mm ² is unpluggable terminals are 35 mm ² • Customer installab • Secured by 4 clips	2.5 m 6 m 6 m 1.5 m 9 le printed circuit board. on the motherboard. .5 mm ² screw terminals.	1m ² m ²	2.5 mm ² 10 mm ² 10 mm ²		
Screw terminal Mains Batteries Load (2 outputs) Alarm reports* *the alarm report connector Note: the battery and 12 V/48 A load > Options 3 or 5 fuse output kit	2.5 mm ² 2.5 mm ² 2.5 mm ² 1.5 mm ² 1.5 mm ² is unpluggable terminals are 35 mm ² • Customer installab • Secured by 4 clips • Connectors with 2 • Fuse 5 x 20 rating 4	2.5 m 6 m 6 m 1.5 m 9 le printed circuit board. on the motherboard. .5 mm ² screw terminals.	1m ² m ² 1m ²	2.5 mm ² 10 mm ² 10 mm ²		
 Connection specifications Screw terminal Mains Batteries Load (2 outputs) Alarm reports* *the alarm report connector Note: the battery and 12 V/48 A load > Options 3 or 5 fuse output kit Omega DIN rail mounting kit Digital display on C85 cabinet. 	2.5 mm ² 2.5 mm ² 2.5 mm ² 1.5 mm ² 1.5 mm ² is unpluggable terminals are 35 mm ² • Customer installab • Secured by 4 clips • Connectors with 2 • Fuse 5 x 20 rating 4	2.5 m 6 m 6 m 1.5 m 9 le printed circuit board. on the motherboard. .5 mm ² screw terminals. 4 A. ting the C6 and C23 cabinet on a	1m ² m ² 1m ²	2.5 mm ² 10 mm ² 10 mm ²		

EVOLUTION DATASHEET

> Cabinet and rack ch	aracteristics			
Version	Size W x H x D (mm)	IP	Base	Cover
C6	194 x 243 x 97	IP30	Metal, RAL 9006	ABS RAL 9003
C23	248 x 322 x 126	IP30	Metal, RAL 9006	ABS RAL 9003
C24	322 x 248 x 126	IP30	Metal, RAL 9006	ABS RAL 9003
C38	289 x 350 x 189	IP31	Metal, RAL 7035	Metal, RAL 7035
C48	425 x 345 x 120	IP30	Metal, RAL 9006	ABS RAL 9003
C85	408 x 408 x 224	IP31	Metal, RAL 7035	Metal, RAL 7035
C180	505 x 610 x 430	IP31	Metal, RAL 7035	Metal, RAL 7035
Rack F3U	482 x 132 x 110	IP30	Metal, RAL 7035	Metal, RAL 7035
Rack	483 x 132 x 235	IP30	Metal, RAL 7035	Metal, RAL 7035
> Types of battery cat	pinets			
Version	Туре	12 V DC	24 V DC	48 V DC
C6	Wall-mounted & Floor-mounted	-	-	-
C23	Wall-mounted	-	-	-
C24	Wall-mounted	7 Ah, 12 Ah, 24 Ah (2 x 12 Ah)	7 Ah, 12 Ah	2.1 Ah
C38	Wall-mounted & Floor-mounted	17 Ah, 24 Ah, 38 Ah	17 Ah, 24 Ah	7 Ah, 12 Ah
C48	Wall-mounted	24 Ah (2 x 12 Ah), 36 Ah (3 x 12 Ah), 48 Ah (4 x 12 Ah)	7 Ah, 12 Ah, 24 Ah (4 x 12 Ah)	7 Ah, 12 Ah
C85	Wall-mounted & Floor-mounted	48 Ah (2 x 24 Ah), 65 Ah, 80 Ah, 96 Ah (4 x 24 Ah)	24 Ah, 38 Ah, 48 Ah (4 x 24 Ah)	12 Ah, 17 Ah, 24 Ah
C180	Floor-mounted	120 Ah, 130 Ah, 140 Ah	65 Ah, 80 Ah, 120 Ah, 130 Ah, 170 Ah	38 Ah, 65 Ah, 80 Ah
Rack F3U	Rack	-	-	-
Rack	Rack	_	-	-

SLAT can change specifications on his products without prior notice.





Communication via dry contact

FIT'IN emergency power supplies provide permanent and backup power for all installations.







Main functions

- \sim Card protection, DIN rail mounting.
- \sim Battery charger function.
- \sim Resists short-circuits on load outlets.
- \sim The installation resumes as soon as the mains returns.

Benefits of the FIT'IN range

- \sim Two independent fuse-protected load outlets.
- \sim Dimensioned to operate 24/7 at rated power.
- \sim Built-in lightning protection.
- \sim Fits easily into an enclosure or cabinet.
- \sim Inaudible.

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE	РАСК
FIT'IN 12V		'		
FITIN 12V 6A CG1	0,5 kg	130 x 104 x 41	1520601000	-
FITIN 12V 6A CG1 Q16	0,5 kg	130 x 104 x 41	1520613000	16
FITIN 12V 12A CG2	1,0 kg	125 x 177 x 68	1521202000	-
FITIN 12V 12A CG2 Q16	1,0 kg	125 x 177 x 68	1521214000	16
FITIN 12V 24A CG3	2,2 kg	182 x 231 x 73	1522403000	-
FITIN 12V 24A CG3 Q8	2,2 kg	182 x 231 x 73	1522415000	8
FITIN 12V 32A CG4	3,5 kg	215 x 265 x 77	1523204000	-
FIT'IN 24V				
FITIN 24V 3A CG1	0,5 kg	130 x 104 x 41	1540301000	-
FITIN 24V 3A CG1 Q16	0,5 kg	130 x 104 x 41	1540313000	16
FITIN 24V 6A CG2	1,0 kg	125 x 177 x 68	1540602000	-
FITIN 24V 6A CG2 Q16	1,0 kg	125 x 177 x 68	1540614000	16
FITIN 24V 12A CG3	2,2 kg	182 x 231 x 73	1541203000	-
FITIN 24V 12A CG3 Q8	2,2 kg	182 x 231 x 73	1541215000	8
FITIN 24V 24A CG4	3,5 kg	215 x 265 x 77	1542404000	-
FITIN 24V 24A CG4 Q4	3,5 kg	215 x 265 x 77	1542416000	4
FIT'IN чвv				
FITIN 48V 3A CG2	1,0 kg	125 x 177 x 68	1580302000	-
FITIN 48V 3A CG2 Q16	1,0 kg	125 x 177 x 68	1580314000	16
FITIN 48V 6A CG3	2,2 kg	182 x 231 x 73	1580603000	-
FITIN 48V 6A CG3 Q8	2,2 kg	182 x 231 x 73	1580615000	8
FITIN 48V 12A CG4	3,5 kg	215 x 265 x 77	1581204000	-
FITIN 48V 12A CG4 Q4	3,5 kg	215 x 265 x 77	1581216000	4

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FIT'IN DATASHEET

> Ratings						
	75 W	150 W	300 W	600 W		
12 VDC	6 A	12 A	24 A	32 A		
24 VDC	3 A	6 A	12 A	24 A		
48 VDC	-	3 A	6 A	12 A		
The currents (I _n) shown are at rated c	output power.					
> Standard-based specifications						
Safety	EN 62368-1					
EMC - Immunity	EN 61000-6-1 • EN 61000	EN 61000-6-1 • EN 61000-6-2				
EMC - Emissions	EN 61000-3-2 • EN 61000)-6-3 • EN 61000-6-4 • E	N 55032			
Environmental	This product range completion of the state o	lies with the environme	ntal policy (ISO 14001, R	oHS and WEEE).		
> Environmental specifications						
Relative humidity			non-condensing relative non-condensing relative			
Storage temperature		-25°C	to +85°C			
Operating temperature	Power	7	75 W	100 W - 600 W		
	75% of load	-5°C	to +50°C	-5°C to +50°C		
	100% of load	-5°C	to +50°C	-5°C to +40°C		
Altitude	Above 2,000) m, the maximum temp	erature decreases by 5%	6 every 1,000 m		
Service life	50,000 h at 25°C (external environment) a	ind 75% of load, product	installed in a cabinet		
> Input characteristics						
Voltages			e-phase (300 W - 600 W) single-phase (150 W)			
Frequency		45 t	o 65 Hz			
Neutral systems		TT ·	· TN - IT			
Inrush current		limite	ed by NTC			
Upstream circuit breaker required		Cu	irve D			
Class		C	lass I			
	75 W	150 W	300 W	600 W		
Mains consumption @198 V	0.5 A	1 A	2 A	4 A		
Efficiency at 20% load	71%	75%	84%	85%		
Efficiency at rated load	85%	84%	90%	91%		
> Output characteristics						
Rated voltage	12 V DC	24	V DC	48 V DC		
Floating voltage (U _n) set at half-load and at 25°C	13.6 V +/-0.5%	27.2	/ +/-0.5%	54.4 V +/-0.5%		
Adjustment range in power supply mode only	12 V - 14 V	23	V - 29 V	46 V - 58 V		
Charger current limitation		From I,	to I _n +15%			

> For reliable output volta	ige					
Protection against exter- nal aggressions	 Resistance to any type of external aggression: Overvoltages encountered on the mains network (lightning strikes, industrial environment, isolation fault on impedance-earthed neutral system, etc.) Short-circuit on the primary power supply primary by a slow blow fuse on the phase. Differential mode shock waves by varistor and fuse. Inversions of battery polarity. Overvoltages on the secondary power supply. Overcurrents and short-circuits on the secondary power supply. Short-circuits inside the product, protected by primary fuse. Increases in external temperatures (outside the specified range). 					
Charger current limitation	 The output current limitation allows to start a charge cycle on an empty battery Completely protects the product from short-circuits on the installation. The selectivity of the protection is ensured by the fuses on each output use and the battery fuse. 					
High performance filtering and regulation		cumulative variations of the mains and Il parasites and reduces the ripple on ntee of optimum system operation.				
> For the control of the er	nergency power source					
System control	 Monitoring of: Status of mains, battery and load for Battery presence or absence. Battery voltage. Its operating status. Mains voltage present in the correct 					
Battery charge management	• The charge voltages are factory adj					
Battery backup	 Prevents excessively deep discharg (cut-off threshold: 1.8V/cell). A report is sent before disconnection. Very low internal consumption. 	ery at the end of discharge to preserve e, that may permanently downgrade p on (pre-cut-off alarm threshold: 1.85V, full advantage of the battery capacity.	performance			
> Charger consumption or	n the battery during autonomy					
	12 V DC	24 V DC	48 V DC			
75 W	32 mA	39 mA	-			
150 W	49 mA	75 mA	85 mA			
300 W	65 mA	44 mA	37 mA			
600 W	141 mA	106 mA	73 mA			

FIT'IN DATASHEET

> Communication					
Displaying and remote reporting of the information	 Internal signaling on mot A LED on the motherboard Signals: Everything OK: green Mains fault: orange Battery or charger fault, (this fault takes priority over - Mains fault: Remote reporting by means - Charger fault: A charger fault occurs if the Remote reporting by means - Battery fault occurs if the Remote reporting by means 	indicates the operational s or load not present: red er a mains fault). s of a dry contact with time e mains fuse is out of order s of a dry contact with time battery is not present or if	e delay relay (fail-s or not present, or e delay relay (fail-s voltage < 1.85 V/o	if the unit is out of order. afe). cell in autonomous mode.	
> Connection specifications					
Screw terminal	75 W	150 W	300 W	600 W	
Mains	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²	
Batteries	2.5 mm ²	6 mm²	6 mm ²	10 mm ²	
Load (2 outputs)	2.5 mm ²	6 mm ²	6 mm²	10 mm ²	
Alarm report*	1.5 mm ²	1.5 mm ²	1.5 mm²	1.5 mm ²	
*The alarm report connector can be u	nplugged				
> Boards characteristics					
Manatan	Dimensions W x H x D (mm) Base Cover				
version		Bas	e	Cover	
		Bas Met		Grid	
	W x H x D (mm)		al		
CG1 CG2 CG3	W x H x D (mm) 105 x 185 x 57	Met	al al	Grid	

SLAT can change specifications on his products without prior notice.

Main functions

- \sim Controls and reports operating status over IP
- \sim Monitors battery presence
- \sim Protects the battery against deep discharge
- \sim Display of status on the front panel

Benefits of the RMS IP range

- \sim Five fuse-protected load outlets
- ∼ All connectors are pluggable
- \sim Built-in lightning protection
- \sim Fully-protected product, with rear connectors

MODEL	WEIGHT (kg)	SIZE W x H x D	CODE
EVOLUTION RMS	IP ızv		
RMS IP 12V 8A 16A UTIL	3,7 kg	483 x 89 x 395	1521634000
RMS IP 12V 16A 32A UTIL	4,7 kg	483 x 89 x 395	1523234000
EVOLUTION RMS	IP 24V		
RMS IP 24V 4A 10A UTIL	3,7 kg	483 x 89 x 395	1541034000
RMS IP 24V 10A 16A UTIL	4,7 kg	483 x 89 x 395	1541634000
EVOLUTION RMS	IP 48V		
RMS IP 48V 2A 4A UTIL	3,7 kg	483 x 89 x 395	1580434000
RMS IP 48V 4A 10A UTIL	4,7 kg	483 x 89 x 395	1581034000

Emergency power supplies with batteries in a 19" 2U rack IP Management 12 V DC • 24 V DC • 48 V DC

EVOLUTIO

rms ip

Remote communication over IP and Digital Display

The emergency power supplies of the EVOLUTION RMS IP range provide permanent and backup power for all installations.





Rack 2U - back view 483 x 89 x 395 mm

EVOLUTION RMS IP DATASHEET

> Ratings							
	300 V	V		600 W			
	l _n	Load	l _n	l _{Load}			
12 V DC	24 A	8 to 16 A	48 A	16 to 32 A			
24 V DC	12 A	4 to 10 A	24 A	10 to 16 A			
48 V DC	6 A	2 to 4 A	12 A	4 to 10 A			
> Standard-based specificat	tions						
Safety	EN 62368-1						
EMC - Immunity	EN 61000-6-1 • EN 61000-6-2						
EMC - Emission	EN 61000-3-2 • EN 61000-6-3	EN 61000-3-2 • EN 61000-6-3 • EN 61000-6-4 • EN 55032 class B					
Environment	This product range meets the environmental requirements of ISO 14001, RoHS and WEEE Standards.						
> Environmental specificati	ons						
Humidity	Durir	ng storage: relative humid peration: relative humidit	,	0			
Storage temperature		-25°C t	o +85°C				
Working temperature	Powe	r	300	W - 600 W			
	75% of I	oad	-5°C to +50°C				
	100% of	load	-5°C to +40°C				
Altitude	Above 2,000m, the temperature decreases by 5% every 1,000m						
Working life	200,000 hours at 25°C (ext. environment) and 75% of load, product installed in 19" rack						
> Input specifications							
Voltages	99 to 264 V AC single-phase						
Frequency		45 to	65 Hz				
Neutral system		TT - T	N - IT				
Inrush current		limited	by CTN				
Upstream circuit breaker required		Bipolar	curve D				
Class		Cla	ss I				
	300 V	V		600 W			
Mains consumption @ 198 V	2 A			4 A			
Converter	300 V	V		600 W			
At 20% load	84%		85%				
At rated load	90%			91%			
> Output specifications							
Rated voltage	12 V DC	24 \	/ DC	48 V DC			
Floating voltage (U _n) set at half-load and 25°C	13.6 V +/-0.5%	27.2 V	+/-0.5%	54.4 V +/-0.5%			
Setting range in power supply mode only	12 V - 14 V	23 V	- 29 V	46 V - 58 V			
Charger current limitation		I	n				
Load voltage	13.6 V DC	27.2	V DC	54.4 V DC			

> For reliable output voltage	e				
Protection against external attack	 Resistance to all types of external aggressions: Overvoltages encountered on the mains network (lightning, industrial, isolation fault on impedance-earthed neutral system, etc.) Short-circuit on the primary power supply by a slow-blow fuse on the phase. Differential mode shock waves by varistor and fuse. Battery polarity inversions. Overvoltages on secondary. Overcurrents and short-circuits at secondary. Short-circuits inside the product, protected by primary fuse. Increases in external temperatures (outside the specified range). 				
Charger current limitation control	Protects the product completely fr	charging cycle to be started on an em om short-circuits on the installation. y fuses on each load output and the b			
High-performance regulation and filtering		mulative variations of the mains volta s all interference and reduces the rip rantee of optimum system operation. 4% U _n .	ple voltage on the DC output.		
> For the control and managed	gement of the emergency power source	ce			
System control	 Monitoring of: The status of mains, battery and lo Battery presence or absence. Battery voltage and its operating st Mains voltage present in the corre 	tatus.			
Battery charge management	• The load voltages are factory set for	-			
Battery backup	 Prevents excessively deep discharge 1.8V/cell +/-0.5%). Information is transmitted before of Very low internal consumption. 	tery at end of discharge to preserve i ge that would permanently downgrad disconnection (pre-cut out alarm at 1. e full advantage of the battery's capac	e performance (cut-out threshold 85V/cell +/-0.5%).		
> Charger consumption on t	the battery during autonomy				
	12 V	24 V	48 V		
300 W	65 mA	45 mA	37 mA		
600 W	141 mA	106 mA	73 mA		
> IP Communication					
Ethernet configuration	 Configuring rack communication se 2 groups possible: Administrator User 	ttings using a computer.			
Available languages	 French English German Italian Dutch Spanish 				

EVOLUTION RMS IP DATASHEET

> IP Communication	
Management by IP, reports viewed remotely	 The items shown on the Management screen are: Name of managed product. Mains present / absent. AC / DC converter OK or faulty. Fuses OK or faulty. Battery switch open / closed. Current direction charge / discharge. Battery present / battery circuit faulty. Low battery: product shutdown imminent, back-up failure. MIB made available upon request from the supervision site.
Reports viewed locally	 Display 16 characters, 1 line: Mains voltage. Battery voltage and current. Load voltage (by load output). Information about the various problems (mains, charger, fuse, battery, etc.). Integrated MMI: The user can navigate using the push button on the front panel, to the right of the display. Energy-saving function: The display automatically goes into standby mode.

EVOLUTION RMS IP DATASHEET

> Connection specifications					
		3 4 5 +- +-+- 0+3 0+4 0+1 2 0+1 2 0+1 0+1 0+1 0+1 0+1 0+1 0+1 0+1 0+1 0+1			
*Fuse not included, to be calibrate					
Plug-in connectors	300		600 W		
Mains	2.5 n		2.5 mm ²		
Battery	6 m		10 mm ²		
Load outputs 1 and 2	6 m	m²		10 mm ²	
Auxiliary load outputs	1.5 n	nm²		1.5 mm ²	
3, 4 and 5					
	1.5 n	nm²		1.5 mm²	
3, 4 and 5	1.5 n cat 5e / cat		Ca	1.5 mm² at 5e / cat 6e (RJ45)	
3, 4 and 5 Alarm reports			Ca		
3, 4 and 5 Alarm reports Ethernet cable			Base		nel
3, 4 and 5 Alarm reports Ethernet cable	cat 5e / cat Size	: 6e (RJ45)		at 5e / cat 6e (RJ45)	
3, 4 and 5 Alarm reports Ethernet cable > Rack characteristics	cat 5e / cat Size W x H x D (mm) 483 x 89 x 395	: 6e (RJ45) IP IP30	Base	at 5e / cat 6e (RJ45) Front pa	
3, 4 and 5 Alarm reports Ethernet cable > Rack characteristics 2U Rack	cat 5e / cat Size W x H x D (mm) 483 x 89 x 395	E 6e (RJ45) IP IP30 ity / VRLA	Base	at 5e / cat 6e (RJ45) Front pa	7035
3, 4 and 5 Alarm reports Ethernet cable > Rack characteristics 2U Rack > Charger I _n summary / I Load	cat 5e / cat Size W x H x D (mm) 483 x 89 x 395	: 6e (RJ45) IP IP30 :ity / VRLA	Base Metal	at 5e / cat 6e (RJ45) Front pa Metal, RAL	7035
3, 4 and 5 Alarm reports Ethernet cable > Rack characteristics 2U Rack > Charger I _n summary / I Loac Designation	Cat 5e / cat Size W x H x D (mm) 483 x 89 x 395 I / associated battery capac I _n (whole charger)	: 6e (RJ45) IP IP30 ity / VRLA I From 8	Base Metal	at 5e / cat 6e (RJ45) Front pa Metal, RAL	7035
3, 4 and 5 Alarm reports Ethernet cable > Rack characteristics 2U Rack > Charger I, summary / I Load Designation RMS IP 12V 8A 16A UTIL	cat 5e / cat Size W x H x D (mm) 483 x 89 x 395 I / associated battery capac I _n (whole charger) 24 A	: 6e (RJ45) IP IP30 ity / VRLA From 8 From 1	Base Metal	at 5e / cat 6e (RJ45) Front pa Metal, RAL Maximum battery capac 160 Ah	7035
3, 4 and 5 Alarm reports Ethernet cable > Rack characteristics 2U Rack > Charger I_n summary / I Locc Designation RMS IP 12V 8A 16A UTIL RMS IP 12V 16A 32A UTIL	cat 5e / cat Size W x H x D (mm) 483 x 89 x 395 I / associated battery capace I _n (whole charger) 24 A 48 A	: 6e (RJ45) IP IP30 ity / VRLA IFrom 8 From 1 From 4	A coad A coad	at 5e / cat 6e (RJ45) Front pa Metal, RAL Maximum battery capac 160 Ah 320 Ah	7035
3, 4 and 5Alarm reportsEthernet cable> Rack characteristics2U Rack> Charger I, summary / I LocaDesignationRMS IP 12V 8A 16A UTILRMS IP 12V 16A 32A UTILRMS IP 24V 4A 10A UTIL	cat 5e / cat Size W x H x D (mm) 483 x 89 x 395 I / associated battery capac In (whole charger) 24 A 48 A 12 A	: 6e (RJ45) IP IP30 ity / VRLA IFrom 1 From 1 From 1	A to 10 A	at 5e / cat 6e (RJ45) Front pa Metal, RAL Maximum battery capac 160 Ah 320 Ah 80 Ah	7035

SLAT can change specifications on his products without prior notice.



EMERGENCY SYSTEMS AND MEDICAL APPLIANCES

DON'T WORRY, YOUR TECHNICAL RESOURCES ARE FULLY OPERATIONAL



Faced with emergencies and the need to save human lives, to provide care and support to people in distress, medical teams must be able to rely on the resources at their disposal. These instruments and equipment must **operate flawlessly**, **24** hours a day, to provide the right response at the right time.

The operational continuity of these resources may sometimes mean the loss of human life, but it always ensures the peace of mind of the nursing staff who have to deal with every situation.

For many years now, SLAT has been supporting the men and women in our care and health centers. Our products provide failure-free power to medical systems, enabling them to provide the operational support that medical teams deserve.

SLAT, reliable solutions that keep technical resources running at all times.

SELECTION GUIDE

	SANTE	FIT'IN			SDC-PoE 8	SDC-PoE 24	епе	RGO	
Application	Nurse call and other medical systems	Multi-Application			Multi-Application	Multi-Application	subst	MV/LV substation Control	
Standard	EN 61046	-			-	-	NF C13-100		
DC output voltage	24 V	12 V 24 V 48 V		-	-	24 V	48 V		
Current / Power	4 A / 8 A / 12 A / 16 A / 24 A	6 A / 12 A / 3 A / 6 A / 3 A / 6 A / 24 A / 32 A 12 A / 24 A 12 A			180 W	210 W	6 A / 12 A		
Number of terminal outputs	5	2			-	-	2 ,	2 / 4	
PoE/PoE+ ports	-		-		8	22	-		
SFP ports	-		-		2	4		-	
Format	Вох		Card		DIN	Rack	B	ox	
Battery technology	Lead		Lead		Lithium	Lithium	Lead	Lead or Lithium	
Battery control/ protection batterie	Yes		Yes		Yes	Yes	Y	es	
	7 Ah						7.	Ah	
Battery capacity	12 Ah	Compatible with batteries	Compatible with batteries	Compatible with batteries	F	F		Ah	
	24 Ah 65 Ah	up to 240 Ah	up to 180 Ah	up to 90 Ah		J	24	Ah	
Page	50		38		117	122	5	5	

*with option





Emergency power supplies with batteries – Medical and emergency systems

24 V DC



Complies with Standard EN 61046

Communication by LED on the front panel • Dry Contact

The SANTE emergency power supplies with batteries provide permanent and backup power for medical and emergency system installations.





C24





Main functions

- \sim Resists short-circuits on load outlets
- \sim Controls and reports operating status
- \sim Monitors battery presence
- \sim Protects the battery at end of discharge.

Benefits of the SANTE range

- \sim 5 independent fuse-protected load outlets
- \sim Dimensioned to operate 24/7 at rated power
- \sim Built-in lightning protection
- \sim The installation is available as soon as the mains returns.

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
SANTE 24V			
SANTE 24V 4A C24 AB 7 AH	8.0 kg	322 x 248 x 126	3040424007
SANTE 24V 8A C48 AB 12AH	16.0 kg	425 x 345 x 120	3040848012
SANTE 24V 8A C48 AB 24 AH	29.0 kg	425 x 345 x 120	3040848024
SANTE 24V 12A C48 AB 24 AH	29.0 kg	425 x 345 x 120	3041248024
SANTE 24V 16A C48 AB 24 AH	29.0 kg	425 x 345 x 120	3041648024
SANTE 24V 24A C180 AB 65AH	68.0 kg	505 x 610 x 430	3042418065

SANTE DATASHEET

> Ratings								
	75 W	100 W	150 W	200 V	V 300 V	V	400 W	600 W
24 V DC	3 A	4 A	6 A	8 A	12 A		16 A	24 A
The currents (I_n) shown are at rated o	utput power							
> Standarts-based specifications								
Safety	EN 62368-1							
EMC - Immunity	EN 61000-6-1	• EN 61000-6	5-2					
EMC - Emission	EN 61000-3-2	• EN 61000-6	6-3 • EN 61000-6	6-4 • EN 5	5032 class B			
Specific	EN 61046							
Environment	This product	range is enviro	onmental policy	ISO 14001	, RoHS et WEEI	Ε.		
> Environmental specifications								
Humidity		During storage: relative humidity 10% to 95% (non-condensing) In operation: relative humidity 20% to 95% (non-condensing)						
Storage temperature				-25°C à +	85°C			
	Pow	ver	75 W	/ - 100 W			150 W - 600	W (
Operating temperature	75% of	load	-5°C	to +50°C			-5°C to +50	۳C
	100% o	100% of load -5°C to +50°C -5°C to +40°C						
Altitude		Above 2,	.000 m, the temp	perature d	ecreases by 5%	6 every 1	.,000 m	
Working life	50,000) h at 25°C (ex	ternal environm	ent) and 7	75% of load, pro	oduct in	stalled in a c	abinet
> Input specifications								
Voltages			198 to	264 V AC	single-phase			
Frequency				45 to 65	Hz			
Neutral system				TT - TN	- IT			
Switch-on current				limited by	r CTN			
Upstream circuit breaker required				Bipolar D	Curve			
Class		1		I Clas	s			
	75 W	100 W	150 W	200 V	V 300 V	V	400 W	600 W
Primary current @ 198 V	0.5 A	0.75 A	1 A	1.5 A			3 A	4 A
Converter	75 V	V	100 W - 150	W	200 W - 300) W	400 V	V - 600 W
At 20% load	71%	71% 75% 84% 85%						
At rated load	85%	6	84%		90%			91%
> Output specifications								
Rated voltage				24 V D	C			
Floating voltage (U _n) set at half-load and 25°C				27.2 V +/-	0.5%			
Short-circuit current limitation				I _n				

> For reliable output voltage	ge					
Protection against external aggressions	 Resistance to all types of external aggressions: Overvoltages encountered on the mains network (lightning, industrial, isolation fault on impedance-earthed neutral system). Short-circuit on the primary power supply by a slow blow fuse on the phase. Differential mode shock waves by varistor and fuse. Battery polarity inversions. Overvoltages on secondary. Overcurrents and short-circuits on secondary. The short-circuits inside the product, protected by primary fuse. Increases in external temperatures (outside the specified range). 					
Charger current limitation	Completely protects the	allows a charge cycle to be s product from short-circuits o nsured by fuses on each loac	n the installation.			
High performance filtering and regulation	 Particularly efficient output voltage regulation Static regulation < 0.5% of U_n. Dynamic regulation < 5% of U_n for cumulative variations of the mains and the load (from 10% to 90%). Enhanced filtering that eliminates all parasites and reduces the ripple on the V DC output. Battery capacity preserved and the guarantee of optimum system operation. LF rms ripple < 0.2% of U_n HF ripple (20 MHz-50 Ω) < 4% of U_n. Note: The SANTE range can operate without battery and may be used as a direct power supply. 					
> For the control of the em	nergency power source					
System control	 Monitoring of: The status of mains, batt Battery presence or abse Battery voltage and its op Mains voltage present in 	nce.				
Battery charge management	 This function is essential for reaching the design life and to ensure optimum operation of the battery. The charge voltages are factory set for «sealed» recombination-type lead acid batteries. They are consistent with the battery manufacturers' recommendations. The charger features battery charge current limitation. The supply of power to the load takes priority over the battery charge. 					
 Automatic disconnection of the charge at end of discharge to preserve its future capacity. Prevents excessively deep discharge that can permanently downgrade performance (cut-off threshold 1.8 V, cell +/- 0.5%). Battery backup A report is sent before disconnection. (Pre-cut-off alarm threshold 1.85 V/cell +/- 0.5%). During autonomous operation, up to the cut-off threshold, the design of the SLAT unit significantly limits the charger's own consumption on the battery. This allows your application to take full advantage of the battery capacity. 						
> Charger consumption on	the battery in autonomous	node				
	75 W	100 W - 150 W	200 W - 300 W	400 W - 600 W		
24 V DC	39 mA	75 mA	44 mA	106 mA		

SANTE DATASHEET

> For optimal communication					
Displaying and remote reporting of the information	 Charger: Correct operation indic Charger fault if mains f Remote reporting by di Battery: Presence indicated by a Battery fault: If battery is not present every 15 min) or if batt Voltage of less than 1.8 	ry contact with delay (fail rated by a green LED. use is out of order or not ry contact with delay (fail a green LED. t (test every 30 seconds f ery voltage < 1.85 V/cell i	present, or if product is or safe). or the 1st 20 minutes after n autonomous mode. ning orange LED (autonom	r the installation, then	
On motherboard	- Internal signaling on th	e motherboard rd indicates operational s t, or load not present: rec	tatus before the cabinet is	closed (display board	
> Connection specifications					
Screw terminal	75 W	100 W - 150 W	200 W - 300 W	400 W - 600 W	
Vlains	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²	
Batteries	2.5 mm ²	6 mm²	6 mm²	10 mm²	
.oad (2 outputs)	4 x 2.5 mm²	1 x 6mm² 3 x 2.5 mm²	1 x 6mm² 3 x 2.5 mm²	1 x 10mm² 5 x 2.5 mm²	
Alarm reports*	1.5 mm ²	1.5 mm ²	1.5 mm ²	1.5 mm ²	
*the alarm report connector is unplug	gable - Dry contacts, 1 A @	24 V DC, 0.5 @ 120 V AC.	,		
> Cabinet characteristics					
Version	Size W x H x D (mm)	IP	Base	Cover	
224	322 x 248 x 126	IP30	Metal, RAL 9006	ABS RAL 9003	
248	425 x 345 x 120	IP30	Metal, RAL 9006	Metal, RAL 7035	
2180	505 x 610 x 430	IP31	Metal, RAL 7035	Metal, RAL 7035	
Types of battery cabinets					
/ersion	Ту	pe	24	V	
224	Wall-m	ounted	7 Ah,	12 Ah	
C48	Wall-m	Wall-mounted		7 Ah, 12 Ah, 24 Ah (4 x 12 Ah)	
C180	Floor-mounted		65 Ah, 80 Ah, 120 Ah, 130 Ah, 170 Ah		



YOUR ELECTRICITY SUPPLY MAY DEPEND ON THIS SMALL PIECE OF EQUIPMENT



Electricity grids are set to become even more important in the future, as they are essential elements in the energy transition that Europe has embarked upon. From light vehicles to building heating systems, we're switching from oil to electricity.

If electricity is transported at high voltage to limit losses, we need to transform it to low voltage to use it. This is the role of public transformer substations for low-consumption users, or private substations for large consumers. These MV/LV substations house the **switching and protection equipment**, whose control/command is generally supplied at very low voltage, backed up by a battery. A failure in this small piece of equipment and your entire electrical installation would be cut off!

Energo product range provide **permanent power supply** and back-up for HV substation control systems, in particular control command i.e. power supply for MV cell coils and motorization of low-voltage main circuit breakers. Energo products are renowned for their quality, and provide users with advanced functions such as fault prediction, to avoid any outage.



Medium Voltage switchgear / instrumentation and control

24 V DC • 48 V DC

Compliant with trade standard NF C13-100 April 2015

"Delivery sub-stations fed by HV public distribution network"

Communication via digital display • End-of-life prediction

The ENERGO UPS DC supplies standard and emergency power constantly to the high voltage switchgear, instrumentation and control, supply coils and motorisation of circuit breakers for medium voltage cells and the main low voltage switchboard.





Main functions

- \sim Ensures a continuous supply of power to the equipment.
- \sim Maintains a power reserve for restarting the systems by voluntary action.
- \sim Optimises battery charging and service life.
- \sim Anticipates and informs about the battery's end-of-life.
- \sim Guides operation and maintenance.
- \sim Allows local and remote control.
- \sim Cold start, facilitates commissioning.

Benefits of the ENERGO range

- \sim 2 independent, fuse protected load outputs or 4 circuit breakers distribution.
- \sim Configurable power reserve duration. Wind turbine function.
- \sim Backlit display with plaintext messages.
- \sim Cable inputs on all sides.
- \sim Redundancy box option for live work and high reliability.
- \sim Lithium technology models for outdoor use and renewable energies.

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
ENERGO 24V			
ENERGO 24V 6A C85 7Ah	17.2 kg	408 x 408 x 224	3640685007
ENERGO 24V 12A C85 14Ah	23.2 kg	408 x 408 x 224	3641285014
ENERGO 24V 12A C85 24Ah	28.4 kg	408 x 408 x 224	3641285024
ENERGO 24V 12A C85 24Ah 4DJ	28.6 kg	408 x 408 x 224	3641286024
ENERGO 48V			
ENERGO 48V 6A C85 7Ah	22.0 kg	408 x 408 x 224	3680685007
ENERGO 48V 6A C85 14Ah	34.0 kg	408 x 408 x 224	3680685014
ENERGO 48V 12A C85 24Ah	44.9 kg	408 x 408 x 224	3681285024
ENERGO 48V 12A C85 24Ah 4DJ	45.3 kg	408 x 408 x 224	3681286024
ENERGO 48V LITHI	um		
ENERGO 48V 12A C85 LI	27.3 kg	408 x 408 x 224	3681285026

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> Ratings								
24 V DC								
48 V DC*	6 A (50 A at peak) 12 A (50 A at peak)							
The currents I _n shown are at rated	output power.							
*The Lithium model is only availab	le in 48 V DC.							
> Standard -based specifications								
Safety	EN 62368-1	62368-1						
EMC - Immunity	EN 61000-6-2							
EMC - Emission	EN 61000-6-4 • EN 61000-3-2 • EN 55032 • EN 55024	4						
Trade	NFC 13-100 compliant							
Environment	This product range meets the environnmental require CE $\overleftarrow{\mbox{Korls}}$	This product range meets the environnmental requirements of ISO 14001, RoHS and WEEE standards.						
> Environmental specifications								
Humidity	during storage: relative humidity in operation: relative humidity							
Storage temperature	-25°C to	o +85°C						
Operating temperature	75% of load	-5°C to +50°C						
Operating temperature	100% of load -5°C to +40°C							
Altitude	Above 2,000 m, the maximum temperature is lowered by 5% every 1,000 m							
Service life	200,000 h at 25°C external ambient temperature							
> Input characteristics								
Voltage	99 to 2	99 to 264 V AC						
Frequency	45 to	65 Hz						
Neutral system	тт - т	N - IT						
Inrush current	limited	by NTC						
Upstream circuit breaker required	D Cu	ırve						
Class	Cla	ss 1						
	Charger 300 W	Charger 600 W						
Mains consumption @ 99 V	4 A	8 A						
Mains consumption @ 264 V	2 A	4 A						
> Efficiency								
At 20% load	84	1%						
At nominal load	90)%						
> Output characteristics								
Nominal voltage	24 V DC	48 V DC						
Floating voltage (U _n) adjusted to half load and 25°C	27.2 V +/-0.5% 54.4 V +/-0.5%							
Charger current limitation	I _n : 6 A to 12 A dep	pending on model						
> Charger consumption on battery	y in stand-alone mode							
	24 V DC	48 V DC						
300 W	94 mA	37 mA						
600 W	106 mA	73 mA						

ENERGO DATASHEET

> For reliable output ve	oltage						
Protection from externa aggressions	 Overvolta Short-circ Differenti Battery p Overvolta Overcurra Short circ 	 Resistance to all types of external aggression: Overvoltages encountered in the mains grid (lightning, industrial, isolation fault on impedant neutral, etc.) Short-circuit on primary by slow-blow timed fuse on phase. Differential mode shock waves by varistor and fuse. Battery polarity reversals. Overvoltages on secondary. Overcurrents and short circuits on secondary. Short circuits inside the product by primary fuse. Rises in external temperatures (outside specified range). 					
Charger current limitation management	 Protects t 	he product complete	ely from short-circuit	cle on a discharged b s on the installation. load output and the	-		
Control and high-performance filtering	 Static con Dynamic Boosted fill Battery cap LF rms rip 	 Particularly efficient output voltage regulation Static control < 0.5% of U_n. Dynamic control < 5% of U_n for cumulative variations of the mains and the load (10% to 90%). Boosted filtering that eliminates all interference and reduces the ripple on the DC output voltage. Battery capacity preserved and guaranteed optimum operation of systems. LF rms ripple < 0.5% of U_n. HF ripple (20 MHz-50 Ω) < 4% of U_n. 					
> For the control and n	nanagement of t	he emergency powe	r source				
LED Test function	The two LED	light up for one seco	ond when the power	is switched on.			
System control	 State of n Presence Temperat Battery vi Operating 	 Monitoring: State of mains, battery and load fuses. Presence or absence of battery. Temperature inside the cabinet. Battery voltage. Operating status. Presence of mains voltage in the correct operating range. 					
Battery charge management	• The charg • They com	 This function is essential to achieve the theoretical service life and guarantee optimum battery operation. The charge voltages are factory set. They comply with the stipulations of the battery manufacturers. The charger incorporates battery charge current limitation. 					
Battery safeguard	Prevents ba	 Charger disconnects automatically at the end of battery discharge to preserve battery life. Prevents batteries from becoming too discharged, which would cause irreparable deterioration in performances (cut-off threshold 1.8 V/cell at +/-0.5%). 					
Battery Circuit Test function	Every thirty	seconds for the first t	twenty minutes, the	n every fifteen minut	es.		
<i>Battery Health Test</i> function	Impedance t	est performed every	sixteen hours (inter	nal resistance measu	rement).		
Temperature compensation	-3 mV/cell/°	C (on lead battery mo	odels only)				
Restart (C13-100)	battery. The	By local or remote manual action. After a configurable back-up time, the load will be disconnected from the battery. The restart button blinks and indicates a restart stand-by. "Restart?", "Restart in progress" or "Restart impossible" is displayed.					
Cold start	Start up with	Start up without the mains present, only using the battery					
Configurable back-up tim		en (30 min, 1 h, 2 h, 4		·			
Wind turbine function		mote restart. The exe	ecution of the order o	can be delayed from 1	to 30 s, configurable	e via the LCD screen.	
> For optimum commu							
- Green/red/orange tri							
	Steady green	Blinking green Battery being charged	Blinking orange - Low battery - Battery flat - Battery needs to be charged	Steady orange Battery operation	Steady red Battery test fault	Off Battery disconnected in restart stand-by	
User LED L	.oad powered	-	-	10 mm ²	- Charger fault - Fuse fault	Load disconnected	
Restart button LED	-	-	Restart on stand-by	1.5 mm²	-	-	

ENERGO DATASHEET

\checkmark						ENERG	D DATASHEE
> For optimum communicat	ion						
- Digital display							
Display and remote reporting of information	seconds to india Pressing and ho Pressing and ho sub-menus. Press and hold Two menus: - The Standard • the battery v • the output v • the mains, c • the remainin • the end-of-li - The Configura • the language • the duration 0.5h/1h/2h/ • the restart d • the battery t	Press and hold to select a variable in one of the sub-menus. When selected, variable has an * next to it.					
- Positive safety dry contacts	s						
	Alarm reporting						
Name	Ter	minals		Status	เกเ	Fau	It conditions
General fault		1-2	Open in the event of a fault		ult	t Charger or mains or battery or impedance fault	
Mains present		3-4	Open in the event of a fault		No mains po	ower	
Battery flat alarm		5-6	Open in the event of a fault		Battery volta	age < 1.85 V per cell	
> Connection specifications							
		Screw-type ter					
Mains			max. 4				
Batteries			Cabling				
Load (two outputs)			max 10				
Alarm reporting			max 2.	5 mm²			
> Cabinet characteristics	Cohinetalia						
	Cabinet dimensions W x H x D (mm)	Weight (kg)		D	Ca	abinet	Туре
C85 Lead	408 x 408 x 224	16 - 50	- IP:	31	Metal	RAL 7035	Wall or
C85 Lithium	27 floor-mounted						
> Cabinet incorporating batteries							
	24 V 48 V						
C85 Lead			7 Ah, 14 A	An, 24 Ah			
C85 Lithium		-				26 Ah	
> Accessories and spare part	ts						
DES COFFRET TCR C7							
PM ENERGO DISPLAY	Display unit						
PM ENERGO MBOARD	istics of its products without prior		Power	board			

 $\ensuremath{\mathsf{SLAT}}$ reserves the right to alter the characteristics of its products without prior notice.

ENERGO LITHIUM

ENERGO LITHIUM, A REAL BENEFIT FOR YOUR RENEWABLE ENERGY INSTALLATIONS



Renewable energies are developing rapidly to meet our need for carbon-free energy. **Solar fields and wind farms** are generally installed on isolated sites, to ensure greater acceptance by local residents.

Energo products respond to this constraint thanks to their remote control capability. In addition, Energo products feature exclusive, patented functions to **monitor** equipment and **predict future fault**. This enables you to program your preventive maintenance operations and avoid breakdowns synonymous with lost production and emergency repairs.

SLAT has been designing **lithium batteries** for a number of years, mastering the entire manufacturing chain. With a **lifespan at least 3 times longer** than that of lead batteries, you can avoid frequent travels to your site for battery replacement. Our lithium batteries are particularly robust, easily withstanding both high and low temperatures in non-air-conditioned premises.

With very low self-discharges, they can also **withstand weeks without power** after their autonomy. An invaluable advantage for isolated sites or long periods without wind. And it's always possible to manoeuvre even at low battery charge, a unique feature of SLAT lithium batteries.

Energo Lithium is the ideal product for Renewable Energy sites.

LITHIUM

THE ADVANTAGES OF LFP LITHIUM TECHNOLOGY MORE THAN JUSTIFY ITS PREMIUM POSITIONING!



In the security and safety sector, reliability and continuity of service are essential for installations on which human lives depend, or where the assets being protected are important. Therefore SLAT products feature either lead-acid or lithium-acid batteries. Of all storage systems, lithium LFP (lithium-iron-phosphate) offers the best safety features.

LFP battery advantages over lead-acid or Li-ion batteries:

- 3 times smaller and 3 times lighter than a lead-acid battery of equivalent capacity
- Lifespan in excess of 10 years, 3 times longer than lead and Li-ion batteries
- LFP batteries do not present risk of thermal runaway, fire, explosion or flaring that characterize Li-ion technology.
- 1800 total charge/discharge cycles, and way more for partial discharges, making it the ideal battery for applications with regularly recurring shutdowns, unlike Li-ion whose number of cycles is less than 1000.
- Resistance to extreme positive and negative temperatures, suitable for products installed outdoors.
- Low self-discharge: LFP batteries can withstand 9 months' storage before needing recharge.

SUPERCAPS

ESSENTIAL PROTECTION TO ENHANCE THE OPERATION OF ELECTRONIC EQUIPMENT

E ven when our power grids are reliable, **electrical disturbances** persist and can interfere with the operation of electronic equipment. These disturbances can be caused by weather phenomena or static discharges. But most are simply the consequences of normal installation operation, such as opening a circuit breaker or starting a motor.

To protect the network and maintain the energy supply, switching devices open some meshes and close others. These operations are automatic and frequent on a healthy network. They do, however, generate interruptions ranging from a few hundred milliseconds to a few seconds.

SLAT power supplies with Supercaps are **totally free from these electrical disturbances**, and deliver **clean current** without any micro-cuts..

Advantages of SLAT products with Supercaps

- Protects PLCs from power grid disturbances
- Highly recommended for MESH radio networks
- Protects against data loss in IP transmissions
- Prevents false alarm feedback
- Improves system lifetime

Supercaps features

- Autonomy: minimum 3 seconds
 - Time required to reset a mains circuit-breaker
 - Absorbs micro-interruptions, voltage variations, etc.
 - Filters out electromagnetic interference
- Lighter than lead or lithium batteries
- Can be stored for years before recharging
- Virtually unlimited number of charge-discharge cycles

VIDEOPROTECTION/URBAN NETWORKS

GET THE SMART CITY SIMPLY CONNECTED



The connected objects in urban areas are deployed everywhere to give the municipalities the means to manage more efficiently things like traffic movement, communication, waste evacuation, urban pollution, street lighting, incivility, car parks, and illegal posting ... In this way, urban areas are moving at high speed to offer their residents better daily comfort and more efficiency in public services.

All these services are based on information resources located at hotspots that transmit the data to be processed in return for action on the ground. SLAT provides **power supplies for and interfaces** to the electrical and internet networks that simplify the installation and operation of connected objects in urban areas.



SELECTION GUIDE

	EPV	EPV4 / EPV5	SYNAPS IP	SYNAPS PoE 2 / PoE 4	SYNAPS PoE S / PoE 6	SYNAPS PoE 8	SDC-M IP	SDC- PoE 8
Installation	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Indoor	Indoor
Application	Intermittent mains	Intermittent mains	Permanent mains	Permanent mains	Permanent mains	Permanent mains	Permanent mains	Permanent mains
Brown-out protection only	-	-	Yes	Yes	-	-	-	-
Brown-out protection with autonomy (full load)	16 h	20 h	39 min	39 min	22 min	14 min	19 min / 1h19	14 min
Power	100 W	120 W	55 W	55 W	150 W	180 W	55 W	180 W
DC output voltage	12 V/24 V DC 24 V AC ¹	12 V/24 V DC 24 V AC ¹	12 V / 24 V	55 V / 12 V ² / 24 V ²	12 V / 24 V	-	12 V / 24 V	-
Ethernet ports	2	-	2	1	1 or 2	-	2	-
PoE/PoE+ ports	X ¹	5/6	X ²	2 or 4	4	8	-	8
HiPoE ports	X1	2	X ²	-	2	4	-	4
12 V/24 V PoE ports	X1	1/2	X ²	X ²	2	X ²	-	-
Fiber ports	X1	1/2	X ²	X ²	2	2	-	2
SNMP	v1	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3
BACnet	-	-	IP	IP	-	IP	IP	IP
Modbus	-	-	-	-	-	-	-	-
Switch	-	managed	-	unmanaged	managed	managed	-	managed
Page	64	71 and 76	78	82	86	91	105	117

1 with option 2 ask for our customized Synaps offer page 96



OUTDOOR SOLUTIONS SELECTION GUIDE

THE WIRING SOLUTION FOR ANY ENVIRONMENT

Your project : Installation of video protection equipment, signage, sensors, etc. in your town or city

Your need : Connect your equipment to the 230V power supply and transmit your data over the Ethernet network. The SYNAPS and EPVIDEO ranges provide all the wiring connections and conversions you need.

Choose the product that best suits your situation:

The EPVIDEO solution

The EPVIDEO solution

(pages 66 to 77)

- You have an intermittent 230VAC power supply: daily power cuts or voltage drops
- You need several hours of autonomy on your DC equipment

The SYNAPS solution

- You have a permanent mains
- You want to filter out micro outages and/ or blackouts lasting from a few minutes to several hours

The SYNAPS solution

(pages 78 to 96)



EPVIDEO - Your city finds its solution



SUN SHIELD

- \sim Intense exposition to the sun
- \sim High day temperatures
- ∼ Especially designed for southern cities



NIGHT OUT

- ∼ Public lighting switched off at night
- ∼ Maintains security 24 hours a day
- ~ Compatible with energysaving systems

SOLAR

- \sim Use of solar energy in hybrid mode
- ~ Reduced energy consumption
- ∼ Specially designed for the ecological transition



EXTREME COLD

- ∼ Low outdoor temperatures (down to -40°C)
- ∼ Guaranteed start-up and operation
- Specially designed for northern countries and high-altitude ski resorts



A safe solution tailored to your needs

- \sim Fully configurable, made to order to fit in perfectly with your system: you optimise your solution.
- \sim Factory-wired and tested, ready to install and connect: You only need to place one order.
- \sim CE marking for your product, Certificate of Associativity for your system: You get the guarantee and security of a solution that works.

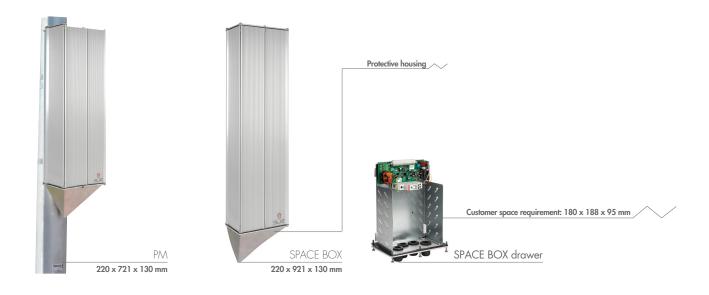
Secure 24/7 Electric power supplies - Video protection EPV320 • EPV640 • EPV760

OUTDOOR



Active video surveillance, whatever the circumstances

The EPVIDEO range enables you to quickly deploy reliable and durable video protection systems, using existing public lighting infrastructures. It ensures a 24/7 power supply and continuity of service for equipment in case of power failure.



Main functions

- \sim Full Outdoor cabinet: 100% airtight, IP66.
- \sim Vandal-proof: IK10 impact resistance and cable protection housing.
- \sim Filters disturbances of the electrical network.
- \sim Remote supervision via webserver or SNMP.
- \sim Configurable reboot function
- \sim Integrated 2 port switch.
- \sim Interoperable: associativity certificate supplied with your offer

The advantages of the EPVIDEO range

- ∼ Ultra compact «plug & play» High Energy Efficiency energy pack (built-in backup).
- \sim Built-in lightning protection.
- \sim More than 1,800 complete charging cycles
- \sim Simple to put into operation: can be installed on a post, wall or in a pull box.
- \sim Version SPACE BOX: with space available for customer equipment.
- \sim Option: wide range of PoE injectors and switches.

*Manufacturer's extended warranty available, contact us for details.

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MODEL	WEIGHT (kg)	SIZE W x H x D	CODE
EP V320 PM V3	15,0 kg	220 x 721 x 130	4620201003
EP V640 PM V3	19,3 kg	220 x 721 x 130	4640201003
EP V760 PM V3	19,3 kg	220 x 721 x 130	4645201003
EP V320 SPACE BOX V3	15,7 kg	220 x 921 x 130	4620601003
EP V640 SPACE BOX V3	20,0 kg	220 x 921 x 130	4640601003
EP V760 SPACE BOX V3	20,0 kg	220 x 921 x 130	4645601003
MAINTENANCE PACK			
EP V320 PACK V3	7,3 kg	-	4620101003
EP V640 PACK V3	11,3 kg	-	4640101003
EP V760 PACK V3	11,3 kg	-	4645101003
OUTDOOR ACCESSORIES BOX			
A BOX 1000	6,3 kg	210 x 453 x 130	489000000
ACCESSORIES			
A KIT HPOE 60W	0,3 kg	-	4690008000
A KIT HPOE 60W 802 3BT	0,3 kg	-	4690008002
A KIT POE 802 3AF	0,2 kg	-	4690009000
A KIT POE 24W	0,2 kg	-	4690006000
A KIT 24V AC	0,6 kg	-	4690007000
A KIT SWITCH 5 PORTS EPV	0,3 kg	-	4690009999
A KIT POE PASSIF	0,2 kg	-	4690004000
OPTIONS			
A KIT CAMELEON PM 320	-	-	4690202997
A KIT CAMELEON PM 640	-	-	4690202998
A KIT CAMELEON PM 760	-	-	4690202999
A KIT CAMELEON SPACE BOX 320	-	-	4690602997
A KIT CAMELEON SPACE BOX 640	-	-	4690602998
A KIT CAMELEON SPACE BOX 760	-	-	4690602999

> Standard-based specifications						
Safety	EN 62368-1	EN 62368-1				
EMC - Immunity	EN 61000-6-1 • EN 61000-6-2					
EMC - Emission	EN 61000-3-2 B class • EN 61000-6-3 • EN 61000-6-	4 • EN 55032 class B				
Application specific	EN 60068-2-5					
Environmental	This product range is environmental policy (ISO 14001, RoHS and WEEE.) CE $\overrightarrow{\text{RoHS}}$ $\overrightarrow{\text{RoHS}}$					
> Input characteristics						
Voltages	175 to 265 V A	C single phase				
Frequency	45 to 6	65 Hz				
Neutral systems	TT -	TN				
Inrush current	limited t	to 12 A				
Circuit breaker to be provided upstream	D Cu	rve				
Class	Clas	is l				
Primary current	1,	Α				
Built-in lightning arrester with an unpluggable cartridge and remote signaling	type 2, 40 kA o	type 2, 40 kA of current flow				
> Output characteristics						
Rated voltage (simultaneous, regulated and stabilized voltages)	12 V DC	24 V DC				
Tolerance	+/- 1%					
PoE and HiPoE	with PoE and/or HiPoE injectors (accessories)					
Total energy restored per cycle	320 Wh / 640 Wh / 760 Wh					
Average power levels	40 W / 80 W / 95 W in win 20 W / 40 W / 47 W in summ					
Max. power per output	60 W	96 W				
Max. cumulative power	100	W				
Converter efficiency	> 96% in battery	discharge mode				
Current limitation (U > 50% U ₂)	I _n = 5 A, U > 50% of U _n	I _n = 4 A, U > 50% of U _n				
LF ripple	10 mV _{rms}	30 mV _{rms}				
Output voltage regulation	< 0.	5%				
Battery	lithi	um				
On-board energy	> 500 Wh (EPV 320) and >	1000 Wh (EPV 640 - 760)				
	6h30 max	<pre>c if > 0°C</pre>				
Charge time	8h30 if	-20°C				
> Integrated functions						
Delta 10 thermal regulation	limits the delta between the ambient (outdoor) te	mperature and the indoor temperature to +10°C				
Intelligent start	soft-start charging cycle - function active if < 0°C					
Intelligent Healthguard	limits the amount of energy discharg	ged to 320 Wh, 640 Wh or 760 Wh				
35% reserve capacity	maintains battery performance in very cold weather and compensates for natural battery ageing					
Reboot function (for cameras)	remote shutdown of 12 V DC and 24 V DC, restartin	g automatically after 8 seconds.				
DAM	Monitors the devices connected to the EP Video and be logged into the webserver, what allows the contr Restarts automatically after 8 seconds.					

EPV3 DATASHEET

> Architecture and mechanical aspects



SPACE BOX Version

- 320 Wh, 640 Wh and 760 Wh plug & play power packs: handle makes for easy connection, with guides for greater safety; power packs start up automatically

- Full outdoor cabinet: all-weather resistance
- Protection rating: IP66
- 100% airtight and secure: no air flows (inward or outward), and protected against vermin and dust
- Anodized aluminum with fins: heat-exchange surface area increased by 40%
- Assisted internal air circulation: even heat distribution across the whole surface area, with no hot spots
- Shock resistance rating: IK10
 - Wind resistance rating: CdA 0.174 (PM version), CdA 0.233 (Space Box version)
 - Vandal-proof housing: protects connection cables
 - «Chameleon» housing (in option): can be painted the same color as your facade, or as other street furniture

> Size and weight				
PM version	Size W x H x D (mm)	Weight (kg)		
Cabinet without housing	220 x 600 x 130	5		
Cabinet with vandal-proof housing	220 x 721 x 130	-		
Cabinet with both housings (chameleon and vandal-proof)	248 x 721 x 160	-		
EPV320	-	13.1		
EPV640	-	17.1		
EPV760	-	17.1		
SPACE BOX Version	Size W x H x D (mm)	Weight (kg)		
Cabinet without housing	220 x 800 x 130	9		
Cabinet with vandal-proof housing	220 x 921 x 130	-		
Cabinet with both housings (chameleon and vandal-proof)	248 x 921 x 160	-		
EPV320	-	15.2		
EPV640	-	19.2		
EPV760	-	19.2		
Space available for customer equipment	180 x 188 x 95			
> Environmental characteristics				
Mains power absent in discharge mode	-20)°C to +50°C		
Mains power present in charge mode	-20)°C to +50°C		
Storage temperature	-20°C to +45°C			
Humidity	from 0 to 100% (condensing)			

EPV3 DATASHEET

Input on the 4 mm² lightning arrester terminal

12 V DC and 24 V DC	output on 2.5	mm ² terminal
---------------------	---------------	--------------------------

12 V DC and 24 V DC output on 2.5 m	m ² terminal
2 RJ45 ports	
Cable feedthrough: Four Ø 14 cable g	lands (allow the passage of RJ45 cables)
> Real-time access to operating infor	mation
Web server and SNMP agent	Configuration and display of operating conditions via the IP network
2-port 100BASE-TX switch	Auto MDX/X, connection of equipment to be powered (video camera, transmission, etc) via RJ45.
Unique IP address for each EPV	Enables connection to the customer's network via Internet Explorer for configuration purposes
Alarm management	Sending of SNMP traps
Information available	 Pack serial number Power pack capacity Lightning arrester condition Mains power present Pack shutdown once 320 Wh, 640 Wh or 760 Wh has been discharged Charger operation Temperature inside the cabinet Power supplied by the charger Load output power Duration of last charge Duration of last discharge Current gauge value during the last discharge Minimum gauge value during the last discharge Number of charge/discharge cycles Number of interrupted cycles Total energy discharged since battery commissioning Shutdown due to overheating Charger overvoltage Maintenance to be performed: downgraded battery capacity Pack to be replaced
Easy to install	 Can be post, wall or pull box mounted: Takes less than 30 minutes for one person to install. Total weight to be handled during installation: 5 or 9 kg (depending on the model). Fastenings compatible with different shapes of post, and adapted to accept 20 mm universal metal banding.
> Accessories	
References	Description
BOX 1000	Box to add customer equipment. Size (mm): W210 x H453 x D130
KIT CAMELEON PM	This carter can be painted to the street furniture colors. It protects the enclosure in severe
KIT CAMELEON SPACE BOX	environments.
KIT HPOE 60W	
KIT HPOE 60W 802 3BT	
KIT POE 802 3AF	The injectors allow to supply electricity to the video products thanks to the Ethernet cables with a RJ45 connector.

	connector.
KIT POE 24W	
KIT POE PASSIF	
KIT 24 Vac	Voltage converter for equipment powered by 24 V AC
KIT SWITCH 5 PORTS EPV	5-port switch with a low power consumption and an extended temperature range. Allows to connect up to 4 IP devices (camera, transmitter,) and to send information to a supervisor.

SLAT can change specifications on his products without prior notice.

EPVIDEO EPV4



Power supply on public lighting for a permanent video protection

PoE/PoE+/HiPoE (IEEE 802.3af/at/bt)

OUTDOOR

An uninterrupted video protection on an intermittent network

The EPVIDEO range allows to quickly deploy reliable and durable video protection systems, using existing public lighting infrastructures. It ensures a 24/7 power supply and continuity of service for the equipment in case of power failure.



EPV4 278 x 751 x 269 mm



Built-in functions

- \sim Power your equipment with PoE up to 90 W
- \sim Managed 5-port layer 2 switch
- \sim Secure webserver and SNMP link
- \sim A fiber link for a remote connection
- ∼Supplies up to 240 W in Power Over Ethernet
- \sim Configurable auxiliary voltage : 12 V DC or 24 V DC
- \sim Configurable automatic reboot on each port
- \sim 10 kA lightning arrestor for lightning strikes

The advantages of the EPV4 range

- \sim Transmits the data up to 20 km by optical fiber
- \sim Protects against lightning and electromagnetic interferences
- \sim Manages the video flows thanks to its multiple dedicated functions
- \sim Ensures the operation 24/7
- \sim Provides a space for customer equipment
- \sim Simplified installation thanks to its door & the assembly on the pole
- \sim Designed for outdoor use with a waterproof, vandalproof box
- \sim Lithium battery SLAT with 10 year service life

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
ЕРVЧ			
EPV4 5N G 4P1C	14.9	278 x 751 x 269	4631708004
EPV4 5Q G 4P1C	17.5	278 x 751 x 269	4641708004
EPV4 5T G 4P1C	20.2	278 x 751 x 269	4651708004
EPV4 SUN SHIELD	18.5	299 x 888 x 291	4641708101
EPV4 NIGHT OUT	20.8	278 x 751 x 269	4652708102
EPV4 EXTREME COLD	20.8	278 x 751 x 269	4652708103
EPV4 SOLAR	17.5 + 7.1	278 x 751 x 269	4641708104

* Manufacturer's extended warranty available, contact us for details.

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Boxes	EPV versions	ns Size W x H x D (mm)			ustomer space (min) (H x D (mm)) Materials	Protection rating	CdA	
Cabinet	EPV4 5N G 4P1 EPV4 5Q G 4P1 EPV4 5T G 4P1 EPV4 NIGHT OL EPV4 EXTREME CO EPV4 SOLAR	C C JT 278 x 751 >	278 x 751 x 269*		Aluminium ABS/PC	IP65 / IK10	0.251		
Cabinet with sunshade	EPV4 SUN SHIEI	D 299 x 888 x 291*		01* 208 X 1/U X 106		Aluminium ABS/PC ABS PMMA	IP65 / IK10	0.319	
Solar panel	EPV4 SOLAR	640 x 550 x 35 -		-	IP65	0.156 (30° angle			
* D with mounting brack	ets: + 2 mm							1	
Weight (kg)	EPV4 5N G 4P1C	EPV4 5Q G 4P1C	EPV4 5	T G 4P1C	EPV4 SUN SHIELD	EPV4 NIGHT OUT	EPV4 EXTREME COLD	EPV4 SOLAR	
0 (0)	14.9 kg	17.5 kg	20.	.2 kg	18.5 kg	20.8 kg	20.8 kg	17.2 kg + 7.1 kg	
Installation	Battery to be inst	14.5 kg 17.5 kg 20.2 kg 10.5 kg 20.8 kg 20.8 kg 17.2 kg + 7.1 kg Wall or post mounting Battery to be installed once the cabinet is mounted on the support Plug and play product Image: State of the support Image: State of the support							
Thermal management	Aluminium with Uniform heat dis				ace hen required: No h	not spots			
Camera installation					dome camera with e drilled as require		meter of 190 mm a	nd a maximum	
> Electrical input chara	cteristics								
AC network voltage		175 V to 265 V /	AC single	e-phase					
Frequency		45 Hz to 65 Hz							
Class		1							
Inrush current		, , ,	nited by NTC (120 W) nited by NTC (240 W)						
Neutral system		TT, TN							
Protection against		primary short-ci	ircuit and	d different	tial mode shock wa	ves			
		1.3 A (120 W) ; 2.6 A (240 W)							
	Primary current @ 265 V AC		0.7 A (120 W) ; 1.4 A (240 W)						
,		D curve							
Primary current @ 265 V		D curve							
Primary current @ 265 V Upstream circuit breaker		D curve Type 2 / 10 kA							
Primary current @ 265 V Upstream circuit breaker Lightning arrestor	to be provided								
Primary current @ 265 V Upstream circuit breaker Lightning arrestor	to be provided								
Primary current @ 265 V Upstream circuit breaker Lightning arrestor > Electrical output char PoE	to be provided	Type 2 / 10 kA	sive PoE	ports incl	uding 2 HiPoE port	s			
Primary current @ 265 V Upstream circuit breaker Lightning arrestor > Electrical output char POE	to be provided	Type 2 / 10 kA			0 1	S			
Primary current @ 265 V Upstream circuit breaker Lightning arrestor > Electrical output char PoE PoE ports	to be provided	Type 2 / 10 kA 5 PoE/PoE+/pas IEEE 802.3af/at	- 15 W /	30 W per	port; Mode B		er 4 PoE pairs (4PPc	pE)	
Primary current @ 265 V Upstream circuit breaker Lightning arrestor > Electrical output char POE POE ports POE/POE+ HiPOE	to be provided	Type 2 / 10 kA 5 PoE/PoE+/pas IEEE 802.3af/at	- 15 W / 5 W / 30 E ports	30 W per) W / 60 W	port; Mode B		er 4 PoE pairs (4PPc	DE)	
Primary current @ 265 V Upstream circuit breaker Lightning arrestor > Electrical output char POE POE ports POE/POE+ HiPOE Passive POE	to be provided	Type 2 / 10 kA 5 PoE/PoE+/pas IEEE 802.3af/at IEEE 802.3bt - 1 PoE 55 V : all Po	- 15 W / 5 W / 30 E ports	30 W per) W / 60 W	port; Mode B		er 4 PoE pairs (4PPc	ρE)	
Primary current @ 265 V Upstream circuit breaker Lightning arrestor > Electrical output char POE POE ports POE/POE+ HiPOE Passive POE	to be provided	Type 2 / 10 kA 5 PoE/PoE+/pas IEEE 802.3af/at IEEE 802.3bt - 1 PoE 55 V : all Po	- 15 W / 5 W / 30 E ports 4V : Con	30 W per) W / 60 W	port; Mode B		er 4 PoE pairs (4PPc	>E)	
Primary current @ 265 V Upstream circuit breaker Lightning arrestor > Electrical output char PoE PoE ports PoE/PoE+ HiPoE Passive PoE Operating output	to be provided	Type 2 / 10 kA 5 PoE/PoE+/pas IEEE 802.3af/at IEEE 802.3bt - 1 PoE 55 V : all Po PoE 12V / PoE 2	- 15 W / 5 W / 30 E ports 4V : Con DC 2 A, U >	50% Un	port; Mode B		er 4 PoE pairs (4PPc	pE)	
Primary current @ 265 V Upstream circuit breaker Lightning arrestor > Electrical output char PoE PoE ports PoE/PoE+ HiPoE Passive PoE Operating output DC output	to be provided	Type 2 / 10 kA 5 PoE/PoE+/pas IEEE 802.3af/at IEEE 802.3bt - 1 PoE 55 V : all Po PoE 12V / PoE 2 12 V DC or 24 V 12 V DC : In = 7.	- 15 W / 5 W / 30 E ports 4V : Con DC 2 A, U >	50% Un	port; Mode B		er 4 PoE pairs (4PPc	DE)	
Primary current @ 265 V Upstream circuit breaker Lightning arrestor > Electrical output char PoE PoE ports PoE/PoE+ HiPoE Passive PoE Operating output DC output Current limitation	to be provided	Type 2 / 10 kA 5 PoE/PoE+/pas IEEE 802.3af/at IEEE 802.3bt - 1 PoE 55 V : all Po PoE 12V / PoE 2 12 V DC or 24 V 12 V DC or 24 V 12 V DC : In = 7. 24 V DC : In = 4.	- 15 W / 5 W / 30 E ports 4V : Con DC 2 A, U > 4 A, U >	50% Un	port; Mode B		er 4 PoE pairs (4PPc	>E)	

EPV4 DATASHEET

Power						
	EPV4 5N G 4P1C	EPV4 5Q G 4P1C	EPV4 5T G 4P1C	EPV4 SUN SHIELD EPV4 SOLAR	EPV4 NIGHT OUT	EPV4 EXTREME COLD
Maximum power	120 W	120 W	120 W	120 W	240 W	240 W
Average power	49 W for 8h 23 W for 16h of autonomy	83 W for 8h 40 W for 16h of autonomy red by the associativi	103 W for 8h 52 W for 16h of autonomy	83 W for 8h 40 W for 16h of autonomy	69 W for 10h 53 W for 6h 39 W for 3h of public lighting	124 W for 8h 60 W for 16h of autonomie
		,	,			
Charging time on grid	,	he associativity certi	ITICATE			
EPV4 SOLAR	Hybrid power supp	ly over solar panel				
Connections						
Mains			g arrester (230 V AC p	ower supply)		
PoE/PoE+/HiPoE ports	4 RJ45 ports (100 N Ethernet cable Cate	1 7	elded, straight or twis	ted cables		
Combo ports	1 Combo port: o	pr .	net cable Category 5e odule 1 Gbps transcei		traight or twisted ca	bles (1 Gbps)
DC Output	1 DC output: Screw	-	n connector with pol			
Digital Input			with polarizing slot (1			
Dry Contact			with polarizing slot (o		@ 60 V DC)	
Cable cross-section		ns, digital input and	1 0 (
Cable feedthrough	Via 10 watertight ca	able glands				
> Functional characteris						
Intelligent start		arging cycle (functior	n active if T < 0°C).			
Intelligent Healthguard			l to safeguard the bat	tery and ensure its li	fespan.	
Capacity reserve			ery cold weather and	-		
Restart function	Allows manual rem	ote control of the on	n/off function per Pol	E port / DC output.		
DAM function	Allows the monitor	ing of the connected	l products with an au	tomatic reboot in the	e event of a fault. Co	nfigurable per port.
Network filtering	Filters out power g	rid disturbances.				
Cooling	Via aluminium radi Intermittent fan ass	ator. sistance (240 W versi	ion).			
Autonometer	Informs of the perc	entage of the remair	ning autonomy.			
Protections						
Against atmospheric or in	dustrial overvoltage or	n primary (10 kA light	tning arrester).			
Against too high currents	on the auxiliary outpu	t (50 mA).				
Against overcurrent and sl	hort circuits on the ou	tput by disconnectio	ng the PoE port.			
> Battery						
Latest generation Lithium	-ion LiFePO4 Technolo	gy (no risk of therma	l runaway).			
Lead-free, cadmium-free,	100% recyclable.					
Storage: 9 months withou	t recharging.					
10 year service life.						
Advanced management se	ettings, cell balancing,	overcurrent and ove	rvoltage protection.			
> Signaling						
5 LEDs indicate the PoE ac	tivity on the correspon	nding port				
5 LEDs indicate the data tr	ansmission activity on	the corresponding p	port			
1 LED indicates the operat	ion of the lightning ar	restor				

> Switch properties			
Switch	Layer 2		
Queues per port	4		
Max. number of VLANs	4094		
VLAN ID range	VID 1 to 4094		
Max. number of IGMP groups (multicast)	1024		
Number of MAC addresses	Up to 8000 MAC addresses		
Max. length Jumbo Frame	10 kB		
Packet buffer memory	1 Mbit		
Communication			
Communication speed	PoE ports	10 / 100 Mbps	
	Combo port 100 / 1000 Mbps		
Application layer protocols	HTTP, HTTPS, SNMP (v1, v2c, v	3),	
Network layer protocols	IPv4, ICMP, DNS		
Management (Web, SNMP)			
Web GUI interface / Web server	-	tility for browser-based device configuration (HTTPS). Supports rd, maintenance and monitoring; Visualisation of the operating	
IP address	Specific to each EPV		
Firmware update	Upgrade via web browser (HT	(PS)	
SNMP	SNMP v1, v2c , v3		
Alarm management	SNMP trap sending		
> Switching characteristics			
The configuration of the switch functions is do	one via the embedded website		
Switch Layer 2			
VLAN	tag-based VLAN	Itaneously (out of 4094 VLAN IDs); Port-based VLAN; 802.1Q	
IGMP v1/v2 Snooping		ve multicast traffic to only the requesters; it supports 1024 fic multicasting is also supported)	
Uplink	Uplink mode limits the sending	g of multicast traffic on the combo port	
Log/SysLog	Records events locally and sen	ds them to one or two specific servers	
NTP	Allows the switch clock to be s	ynchronised with the network clock	
Security			
Website	HTTPS (HTTP operation possib Management administrator ac		
HTTPS	Authentication and encryption Allows secure access to the sw		
SNMP	SNMP V3 with data encryption	-	
Protocol for securing exchanges	TLS (Transport Layer Security, SSL not supported (banned by		
Quality of Service		•	
Hardware Priority Queue	Supports 4 hardware queues		
	Strict priority and weighted ro	und-rohin (WRR)	
Scheduling		SCP and class of service (802.1p/ CoS)	
Classification		ity based; IPv4 precedence/ type of service (ToS) / DSCP based	
	FUIL DASEU; OUZ.1P VLAN PROP	ity based, if v4 precedence/ type of service (105) / DSCP based	
Green Ethernet	Compliant IEEE000.0		
Link detection	Gigabit Ethernet RJ45 port wh	Efficient Ethernet Task Force. Automatically turns off power on en detecting link down or Idle of client. Active mode is resumed nen the switch detects the link up.	
Cable length detection		ed on the cable length. Reduces the power consumption for	

EPV4 DATASHEET

> Environmental s	pecifications			
Temperature				1
		EPV4 5N G 4P1C, EPV4 5Q G 4P1C, EPV4 5T G 4P1C EPV4 NIGHT OUT, EPV4 SOLAR	EPV4 SUN SHIELD	EPV4 EXTREME COLD
Storage		-20	°C +45°C	
Operating	in charge mode mains present	-10°C +50°C	-10°C +55°C	-40°C +50°C
Operating	in discharge mode mains absent	-10°C +50°C with derating	-10°C +50°C with derating	-40°C +50°C with derating
Derating		Above -5°C the capacity is maximum; between -5° between -10°C and -15°C the capacity drops by 10		
Temperatures apply	for start-up and opera	ation.		
Solar radiation - EP	V4 SUN SHIELD			
Protection		The sunshade provides protection against solar ra	diation	
Surface temperature	e	-10°C +80°C		
Altitude		-		
Above 2,000 m, the	temperature decrease	es by 5% every 1,000 m		
Humidity				
0 to 100 % condensi	ing			
> Standards	-			
IEEE Standards				
IEEE 802.1D		Standard Spanning Tree		
IEEE 802.10		Rapid Spanning Tree (RSTP)		
IEEE 802.1W		VLAN		
IEEE 802.3i		10BaseT		
IEEE 802.3u		100BaseT(X) and 100BaseFX		
IEEE 802.3ab		1000BaseT(X)		
IEEE 802.3z		1000BaseX		
IEEE 802.3x		Flow Control		
IEEE 802.3af		POE		
IEEE 802.3at		PoE+		
IEEE 802.3bt		HiPoE (type 1 à 4)		
IEEE 802.3az		Energy Efficient Ethernet		
Electrical and safet	y standards	1		
Safety		EN 62368-1 (2020) + A11 (2020), EN 62368-3 (2020))	
EMC - Immunity		EN 61000-6-1 (2007), EN 61000-6-2 (2019)		
		EN 61000-6-3 (2007), EN 61000-6-4 (2019)	CE	
EMC - Emissions		EN 61000-3-2 (2019) (class A)		RoHS 3 2015/865
		EN 55032 (2015) (class A)		
Other standards		1		
Solar radiation		EN 60068-2-5 (2018)		
Transport approva	1	UN 38.3		
> Accessories				
Pole or wall mount	ing kit			
Sunshade				
Camera mounting p	olate			
Battery				

*SLAT reserves the right to modify the characteristics of its products without prior notice.

An on-demand video protection solution for intermittent networks

The EPVIDEO range allows to quickly deploy reliable and durable video protection systems, using existing public lighting infrastructures. It ensures a 24/7 power supply and continuity of service for the equipment in case of power failure

Built-in functions

76

- \sim Up to two fiber links for a redundant remote connection (RSTP protocols)
- Managed layer 2 switch with up to 6 ports and extensive security features
- ∼ Up to 240 W in Power Over Ethernet (PoE / PoE+ / HiPoE / passive PoE)
- Configurable auxiliary voltages: 12 V DC, 24 V DC, 36 V DC, 24 V AC
- \sim Lightning strike protection to up to 40 kA with alarm reporting

The advantages of the EPV5 range

- $\sim\!\mathsf{A}$ solution dedicated to your application, designed on demand to meet your requirements
- \sim Delivered with the associativity certificate that certifies the proper functioning of the whole installation and the guaranteed life span
- \sim Great simplicity of installation thanks to its large door and the assembly on the pole
- \sim Powers all types of PoE and passive PoE antennas and cameras up to 90 W
- \sim Allows data transmission via optical fiber, enabling the creation of daisy chains or loops

*Manufacturer's extended warranty available, contact us for details.









PoE/PoE+/HiPoE (IEEE 802.3af/at/bt)

OUTDOOR

Power supply on public lighting for a permanent video protection



EPV5 DATASHEET

> Modular characteristics of the EP	PV5 offer					
Switch						
Switch	Managed PoE Switch Layer 2 Up to 6 PoE/PoE+/HiPoE ports including *2 PoE/PoE+ ports *2 PoE/PoE+/HiPoE ports *1 or 2 combo ports (PoE+/SFP)					
Fiber connection	Up to 2 SFP ports					
Network	Connection to the Ethernet, fiber or coaxial networks					
Denducidth	PoE/PoE+/HiPoE ports 10 / 100 Mbps (compatible with 4K cameras)					
Bandwidth	Combo ports (PoE+/SFP)	100 / 1000 Mbps				
Application layer communication protocols	HTTP, HTTPS, SNMP (v1, v2c, v3)					
Integrated functions	STP/RSTP, VLAN, IGMP, Uplink, QoS, Green Ethernet, automatic and manual Reboot per port					
Power supply						
	Power supply of the connected equipm Filters interferences from the electrical					
Power supply	Maximum power	120 W	240 W			
Tower Supply	Average power	49 W to 103 W for 8h49 W to 124 W for 8h23 W to 52 W for 16h23 W to 60 W for 16hof autonomyof autonomy				
Power supply types	PoE/PoE+/HiPoE (IEEE 802.3af/at/bt - up to 90 W per port) Passive PoE: PoE 55 V / PoE 12V / PoE 24 V 12 V / 24 V / 36 V DC (DC output voltages) 24 V AC					
Battery	Ensures a 24/7 operation over public lig Sized according to the needs of the inst					
Mains lightning arrestor	Protection against lightning up to 40 kA	with fault report				
Street lighting shutdown	Ensured operation during the nightly sl	nutdown of the street lighting				
Solar panel	Increased autonomie thanks to the par	tial charging in hybrid mode				
Additional functions						
Door opening detection	Detection of the door opening and sen	ding the information via SNMP to th	e supervisor			
Splice cassette	Separation of the fiber strands and crea	ation of the splice				
Sunshade	Protection against solar radiation (surfa	ace temperature 80°C)				
Extreme Cold	Operation at very low outdoor tempera	ature (down to -40°C)				
PoE lightning arrester	Protection of the PoE/PoE+/HiPoE outp	outs and passive PoE				
Camera installation	Removable cable cover plate for the me a maximum weight of 4 kg (camera not					
Available customer space	Space available to accommodate custo W 208 x H 170 x D 106 mm	mer equipment (min):				

Communicating outdoor power supply box with built-in Lithium LFP backup



12 V DC • 24 V DC

SYNAP

OUTDOOR

IP

Designed to meet WiFi, Mesh and video surveillance security requirements



Built-in functions

- ∽ Safeguards equipment via a 55 W communicating DC Micro-UPS.
- \sim Filters disturbances of the electrical network.
- \sim 10 kA lightning arrester.
- \sim Reboot function configurable from supervision.
- \sim Secure protocols: SNMP V1 & V3 / HTTPS / BACnet IP.
- \sim Fastenings for customer equipment.



Benefits of the SYNAPS IP range

- \sim Eliminates brown-outs and provides at least 15 min. backup.
- \sim Protects equipment from lightning and electromagnetic disturbances.
- \sim LifePO4 very long-life battery technology.
- \sim Space available for customer equipment (media converter, PoE injector, etc.).
- \sim Designed for outdoor use, with IP65 watertight and IK10 vandal-proof locked box.
- \sim Ultra-compact and lightweight product.

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
SYNAPS IP 12V			
SYNAPS 12V 3E N 2E	3.4 kg	200 x 300 x 150	89231713
SYNAPS 12V 3E H 2E	5.1 kg	400 x 300 x 150	89231734
SYNAPS IP 24V			
SYNAPS 24V 3E N 2E	3.4 kg	200 x 300 x 150	89431713
SYNAPS 24V 3E H 2E	5.1 kg	400 x 300 x 150	89431734
OPTIONS	CODE	OPTIONS	CODE
A KIT SYNAPS MP SST	90000227	A KIT POE PASSIF	4690004000
A KIT SYNAPS MP SPACE BOX	90000206	A KIT CONVERTER FO IP 1	90000208
A KIT SYNAPS MURAL	90000222	A KIT CONVERTER FO IP 2	90000209
A KIT SYNAPS ANTI VANDAL	90000203	A KIT SWITCH 5 PORTS EPV	4690009999
A KIT CONVERTER 24 36VDC	90000212	A KIT SPLICE CASSETTE	90000223
A KIT CONVERTER 1224 POE	90000218	PROTEC SMJ8-CAT5E	5090020885
A KIT CONVERTER 24 HIPOE	90000217		

*Manufacturer's extended warranty available, contact us for details.

SYNAPS IP DATASHEET

SNMP / BACnet IP communication

SYNAPS-IP is a communicating DC Micro-UPS specifically designed for 12 or 24 V DC-powered outdoor video surveillance applications. In the event of power failure, it ensures continuity of service for the equipment it powers with the integrated LiFePO4 backup function.

Boxes	Size W x H x D (mm)	Available customer space (minimu W x H x D (mm)	m) Weight (k	g) Materials	Protection rating	CdA	Installation	
Cabinet	200 x 300 x 150*	44 x 200 x 88	3.4	Poly- carbonate	IP65 / IK10	0.066	Wall or post mounted	
SPACE BOX	400 x 300 x 150*	244 x 200 x 88	5.1	Poly- carbonate	IP65 / IK10	0.132	Wall or post mounted	
[•] H with cable glands	s: + 35 mm / P with lo	ck(s): + 20 mm						
Connections								
- 1 Output screw teri	ninals on the lightning minal (12 or 24 V DC). ection: 0.752.5 mm²	arrester (230 V AC power supply).	- Cable feedthro - 2 RJ45 100 Mb		rtight cable glands	(PSG22).		
Network cables: Ethe	ernet cable Cat 5 or m	ore / shielded or unshielded / straig	ht or twisted					
> Standards-based	specifications							
EN 61000-6-3 / EN 6	1000-6-4 / EN 55032 (2 / EN 61000-3-2 class A Class B / UN 38.3 100BASE-T, Flow Control IEEE802.3	x, IEEE802.3az (E	nergy Efficient	Ethernet EEE)	A A	RoHS 3 2015/865	
> Environmental sp	ecifications							
Temperature								
Storage			-20 à +45°C					
			-10 to +50°C in normal and backup modes					
Operating			-5 to +50°C i	n battery charg	e mode			
Humidity								
From 0 to 100% (con	idensing)							
Altitude								
Above 2,000 m, the t	temperature decrease	s by 5% every 1,000 m.						
Working life								
10 years at 25 °C pro	duct external environ	ment, rated mains voltage, 75% load	d.					
> Electrical charact	eristics							
Network input								
AC network voltage		99) to 264 V AC					
DC network voltage		14	10 to 375 V DC					
requency		45	5 to 65 Hz					
Class			ass 1					
Current			rush current limi	ed by NTC				
Neutral systems			r, TN, IT	14				
Protection against Primary current @ 9	0.1/ 0.0		,	it and different	ial mode shock way	ves.		
-rumary current ω 9	9 V AL	1.	ЭΑ					
Primary current @ 2	64 V AC	0	1.5 A 0.38 A					

Operating output				
tated voltage (U _n)	12 V DC		24 V DC	
Available output power		55 W		
Constant voltage adjustable via HTTPS interface		-8% to +13%		
Maximum power on terminal block [55 W]	4.6 A		2.3 A	
Permissible current peaks	9 A / 12 ms 23 A / 4 ms		4.6 A / 8 ms 11 A / 1.6 ms	
	ŋ @ 20% loading	ŋ @ 75% loading	ŋ @ 100% loadin	
Output (Smart Backup)	85%	91%	90%	
> Functional characteristics				
Operates in power-saving mode when the backup is char	ged.			
Filters disturbances of the electrical network.				
Without fan.				
Indicates the % of remaining autonomy.				
IP 65 cabinet				
Lithium LFP Smart Backup				
Latest generation Lithium LiFePO4 Technology (no risk of	thermal runawav).			
Lead-free, cadmium-free, 100% recyclable.				
· · ·				
Storage: 9 months without recharging				
Storage: 9 months without recharging.				
10 year service life.	and overveltage protection			
10 year service life. Advanced management settings, cell balancing, overload				
10 year service life. Advanced management settings, cell balancing, overload A built-in push button disconnects the backup via a static	switch. The battery is automatically r	econnected when mains v	roltage is restored.	
10 year service life. Advanced management settings, cell balancing, overload A built-in push button disconnects the backup via a static	switch. The battery is automatically r	econnected when mains v	oltage is restored.	
10 year service life. Advanced management settings, cell balancing, overload A built-in push button disconnects the backup via a static	switch. The battery is automatically r	econnected when mains v	roltage is restored.	
10 year service life. Advanced management settings, cell balancing, overload A built-in push button disconnects the backup via a static	switch. The battery is automatically r	econnected when mains v	roltage is restored.	
10 year service life. Advanced management settings, cell balancing, overload A built-in push button disconnects the backup via a static	switch. The battery is automatically r (Type 3) CABINETS			
10 year service life. Advanced management settings, cell balancing, overload A built-in push button disconnects the backup via a static	switch. The battery is automatically r (Type 3) CABINETS 12 V / 24 V	2.ar	0 g.M	
10 year service life. Advanced management settings, cell balancing, overload A built-in push button disconnects the backup via a static > Backup duration according to output power - 55 W	switch. The battery is automatically r (Type 3) CABINETS 12 V / 24 V	Backup 3E	0 g.M	
10 year service life. Advanced management settings, cell balancing, overload A built-in push button disconnects the backup via a static > Backup duration according to output power - 55 W Operating power	switch. The battery is automatically r (Type 3) CABINETS 12 V / 24 V	Backup 3E tonomy expressed in hours	0 g.M	
10 year service life. Advanced management settings, cell balancing, overload A built-in push button disconnects the backup via a static > Backup duration according to output power - 55 W Backup duration according to output power - 55 W Operating power 5 W 7 W 10 W	switch. The battery is automatically r (Type 3) CABINETS 12 V / 24 V	Backup 3E tonomy expressed in hours 5h49 4h30 3h21	0 g.M	
10 year service life. Advanced management settings, cell balancing, overload A built-in push button disconnects the backup via a static > Backup duration according to output power - 55 W Backup duration according to output power - 55 W Operating power 5 W 7 W 10 W 15 W	switch. The battery is automatically r (Type 3) CABINETS 12 V / 24 V	Backup 3E backup 3E tonomy expressed in hours 5h49 4h30 3h21 2h20	g g g g g g g g g g g g g g g g g g g	
10 year service life. Advanced management settings, cell balancing, overload A built-in push button disconnects the backup via a static > Backup duration according to output power - 55 W Backup duration according to output power - 55 W Operating power 5 W 7 W 10 W 15 W 20 W	switch. The battery is automatically r (Type 3) CABINETS 12 V / 24 V	Backup 3E backup 3E tonomy expressed in hours 5h49 4h30 3h21 2h20 1h46	g.ar	
10 year service life. Advanced management settings, cell balancing, overload A built-in push button disconnects the backup via a static > Backup duration according to output power - 55 W Backup duration according to output power - 55 W Operating power 5 W 10 W 15 W 20 W 25 W	switch. The battery is automatically r (Type 3) CABINETS 12 V / 24 V	Backup 3E tonomy expressed in hours 5h49 4h30 3h21 2h20 1h46 1h26	g g g g g g g g g g g g g g g g g g g	
10 year service life. Advanced management settings, cell balancing, overload A built-in push button disconnects the backup via a static > Backup duration according to output power - 55 W Solution Backup duration according to output power - 55 W Coperating power 5 W 7 W 10 W 15 W 20 W 25 W 30 W	switch. The battery is automatically r (Type 3) CABINETS 12 V / 24 V	Backup 3E backup 3E tonomy expressed in hours 5h49 4h30 3h21 2h20 1h46 1h26 1h12	g.ar	
10 year service life. Advanced management settings, cell balancing, overload A built-in push button disconnects the backup via a static > Backup duration according to output power - 55 W > Backup duration according to output power - 55 W	switch. The battery is automatically r (Type 3) CABINETS 12 V / 24 V	Backup 3E backup 3E tonomy expressed in hours 5h49 4h30 3h21 2h20 1h46 1h26 1h12 1h02	g.ar	
10 year service life. Advanced management settings, cell balancing, overload A built-in push button disconnects the backup via a static > Backup duration according to output power - 55 W = 5 W = 7 W = 10 W = 15 W = 20 W = 25 W = 30 W = 35 W = 40 W	switch. The battery is automatically r (Type 3) CABINETS 12 V / 24 V	Backup 3E Backup 3E tonomy expressed in hours Sh49 4h30 3h21 2h20 1h46 1h26 1h12 1h02 0h54	Sur S	
10 year service life. Advanced management settings, cell balancing, overload A built-in push button disconnects the backup via a static > Backup duration according to output power - 55 W = 5 W = 7 W = 10 W = 15 W = 20 W = 25 W = 30 W = 35 W = 40 W = 45 W	switch. The battery is automatically r (Type 3) CABINETS 12 V / 24 V	Backup 3E Backup 3E tonomy expressed in hours 5h49 4h30 3h21 2h20 1h46 1h26 1h12 1h02 0h54 0h48	g g g g g g g g g g g g g g g g g g g	
10 year service life. Advanced management settings, cell balancing, overload A built-in push button disconnects the backup via a static > Backup duration according to output power - 55 W > Backup duration according to output power - 55 W > W	switch. The battery is automatically r (Type 3) CABINETS 12 V / 24 V	Backup 3E Backup 3E tonomy expressed in hours Sh49 4h30 3h21 2h20 1h46 1h26 1h12 1h02 0h54	0 g.M	

Against user output overvoltages (deregulation or connection error) and by cutting with cyclical restarting if output voltage > U_n +10%.

Against overloads by limiting the power supply to $P_n + 10\%$.

Against output short-circuits by disconnecting the power supply with cyclical restart.

SYNAPS IP DATASHEET

MMI							
LED for status display and	control (on board).						
Steady green	Flashing green	Slow flash	ing orange	Fast flashing orange	Red		
Normal mode	ECO mode Stealth mode	Backup mode	2	Installation fault - Overcurrent, short circuit - Low voltage output (product overload) Power supply temperature too high - No mains (outside specified power supply range). End of backup imminent	 UPS to be changed If no output voltage If power supply out of order (charger fault). Backup fault Backup undervoltage. Backup overvoltage. 		
LEDs to give the status of	the Ethernet port activity (Li	nk / Act)					
	Steady green			Flashing green	1		
Connection established	connection established			established the Ethernet link			
Communication							
system status), to commu		e and load current, %		er to remotely view information naining, power status, internal t			
Auto MDI/MDI-X			yes				
MAC address table			8,000 entries				
Transmission method			Store & Forward				
Internal switch capacity			650 Mbps	350 Mbps			
Frame size and latency (m	ax)		1,518 octets / 126 μs				
Improved version of the m	nicro program		Upgrade via	via HTTPS web browser			
Protocols supported: IPv4	, HTTPS, TCP, UDP, ICMP, ARF	P, DHCP, SNMP V1 & V	V3, BACnet IP.				
> Accessories and option	ns						
Mode	1			Description			
A KIT SYNAPS MP SST	Pole	mounting kit					
A KIT SYNAPS MP SPACE B	OX Pole	mounting kit for SPA	ACE BOX				
A KIT SYNAPS MURAL	Wall	mounting kit					
A KIT SYNAPS ANTI VANDA	AL Prote	ection against cable c	cutting				
A KIT CONVERTER 24 36 V	DC Volta	ge converter: input 2	it 24 VDC, output 36 VDC				
A KIT CONVERTER 1224 PC	DE POE/I	PoE+ injector					
A KIT CONVERTER 24 HIPC		Einjector					
A KIT POE PASSIF		ve PoE injector					
A KIT CONVERTER FO IP 1		a converter: fiber op					
A KIT CONVERTER FO IP 2		a converter: fiber op	tic to RJ45				
A KIT SWITCH 5 PORTS EP	· ·	t Ethernet switch					
A KIT SPLICE CASSETTE		splice cassette					
PROTEC SMJ8-CAT5E	Light	ning arrestor for Ethe	ernet ports				

*SLAT reserves the right to modify the characteristics of its products without prior notice.

Outdoor network interface with 2 to 4 PoE ports switch and built-in Lithium LFP backup power supply

PoE



PoE/PoE+ (IEEE 802.3af/at)

5YNA

OUTDOOR

PnE

Designed to meet outdoor video, along with WiFi and Mesh network security requirements.



Built-in functions

- Safeguards up to 4 PoE/PoE+ devices, with a total PoE budget of 55 W.
- \sim Device Activity Monitoring for automatic per-port reboot.
- \sim Filters disturbances of the electrical network.
- \sim 10 kA lightning arrester.
- \sim Reboot function configurable from supervision.
- Protected and backed up Ethernet switch with up to 4 PoE ports and one Ethernet Uplink.
- ∽ Secure protocols: SNMP V1 & V3 / HTTPS / BACnet IP.
- \sim Fastenings for customer equipment.



Benefits of the SYNAPS PoE 2 / PoE 4 range

- \sim Eliminates brown-outs and provides at least 15 min. backup.
- \sim Protects equipment from lightning and electromagnetic disturbances.
- \sim LifePO4 very long-life battery technology.
- \sim Space available for customer equipment (media converter)
- \sim Designed for outdoor use, with IP65 watertight and IK10 vandal-proof locked cabinet.
- \sim Ultra-compact and light weight product.

WEIGHT (kg)	SIZE W x H x D	CODE
3.1 kg	200 x 300 x 150	89939716
3.5 kg	200 x 300 x 150	89931714
0055		0005
CODE	OPTIONS	CODE
90000227	A KIT CONVERTER FO POE 1	90000210
90000222	A KIT CONVERTER FO POE 2	90000211
90000203	A KIT EXTENDER POE COAX	90000215
90000213	A KIT SWITCH 5 PORTS EPV	4690009999
90000216	A KIT SPLICE CASSETTE	90000223
90000214	PROTEC SMJ8-POE-A	5090020888
	3.1 kg 3.5 kg CODE 90000227 90000222 90000203 90000213 90000216	3.1 kg 200 x 300 x 150 3.5 kg 200 x 300 x 150 CODE OPTIONS 90000227 A KIT CONVERTER FO POE 1 90000222 A KIT CONVERTER FO POE 2 90000223 A KIT EXTENDER POE COAX 90000213 A KIT SWITCH 5 PORTS EPV 90000216 A KIT SPLICE CASSETTE

*Manufacturer's extended warranty available, contact us for details.

SYNAPS POE 2 / POE 4 DATASHEET

SNMP / BACnet IP / HTTPS communication

SYNAPS-PoE is an outdoor network interface box dedicated to video applications and PoE powered transmissions. It performs energy conversion and data switching. In the event of a brown-out, it ensures continuity of service for the equipment that it protects with the built-in Lithium LFP battery.

> Mechanical chara	octeristics							
Boxes	Size W x H x D (mm)	Available customer space (minimu W x H x D (mm)	ım)	Weight (kg)	Materials	Protection rating	CdA	Installation
Cabinet	200 x 300 x 150*	60 x 200 x 88		3.5	Poly- carbonate	IP65 / IK10	0.066	Wall or post mounted
* H with cable glands	s: + 35 mm / P with lo	ck(s): + 20 mm						
Connections								
- 1 Output screw terr		arrester (230 V AC power supply).	- 1 R.	ole feedthroug J45 1 Gbps por r 4 PoE / PoE+	t.	vatertight cable gla orts.	nds (PG2	22).
Network cables: Ethe	ernet cable Cat 5 or m	ore / shielded or unshielded / straig	ht or t	twisted				
> Standards-based	specifications							
EN 61000-6-3 / EN 6	1000-6-4 / EN 55032 d	2 / EN 61000-3-2 class A :lass B / UN 38.3 100BASE-T, Flow Control IEEE802.3	x, IEEE	E802.3az (Ener	gy Efficient E	thernet EEE)		RoHS 3 2015/865
> Environmental sp	ecifications							
Temperature								
Storage			-2	20 à +45°C				
Operating			-1	10 to +50°C in 1	normal and b	backup modes		
operating			-5	5 to +50°C in ba	attery charge	e mode		
Humidity								
From 0 to 100% (con	densing)							
Altitude								
Above 2,000 m, the t	temperature decrease	s by 5% every 1,000 m.						
Working life								
10 years at 25 °C pro	duct external environ	ment, rated mains voltage, 75% load	d.					
> Electrical characte	eristics							
Network input								
AC network voltage		99	9 to 26	54 V AC				
DC network voltage		14	40 to 3	375 V DC				
Frequency		45	5 to 65	5 Hz				
Class		CI	ass 1					
Current		In	rush c	urrent limited	by NTC			
Neutral systems		Т	Γ, TN, Ι	Т				
Protection against		pr	rimary	short circuit a	nd differenti	al mode shock way	es.	
Primary current @ 9	9 V AC	1.	5 A					
Primary current @ 2	64 V AC	0.	38 A					
Lightning arrestor		Ту	/pe 2 /	′ 10 kA				

oE technology					
	IEEE 802.3af, IEEE 802.3at, PSE type B				
ated voltage (U _n)		55 V DC			
udget PoE via RJ45 port		30 W			
otal PoE budget		55 W			
	ŋ @ 20% loading	ŋ @ 75% loading	ŋ @ 100% loading		
Dutput (Smart Backup)	85%	91%	90%		
Functional characteristics					
perates in power-saving mode when the backup	is charged.				
ilters disturbances of the electrical network.					
Vithout fan.					
ndicates the % of remaining autonomy.					
er-port start/stop function					
Configurable manual reboot function.					
er-port configurable DAM function (automatic s	nutdown and restart)				
P65 cabinet	natuowir anu restarty.				
ithium LFP Smart Backup					
atest generation Lithium LiFePO4 Technology (n	o risk of thermal runaway).				
ead-free, cadmium-free, 100% recyclable.					
ead-free, cadmium-free, 100% recyclable. torage: 9 months without recharging.					
torage: 9 months without recharging. 0 year service life.	variand and everyotrage protection				
torage: 9 months without recharging. 0 year service life. dvanced management settings, cell balancing, c built-in push button disconnects the backup via	a static switch. The battery is automatical	y reconnected when mair	ns voltage is restored.		
	a static switch. The battery is automatical	y reconnected when mair	ns voltage is restored.		
torage: 9 months without recharging. 0 year service life. Idvanced management settings, cell balancing, c I built-in push button disconnects the backup via	a static switch. The battery is automatical - 55 W (Type 3) CABINETS	y reconnected when main	ns voltage is restored.		
torage: 9 months without recharging. 0 year service life. dvanced management settings, cell balancing, c built-in push button disconnects the backup via Backup duration according to output power	a static switch. The battery is automatical - 55 W (Type 3) CABINETS PoE / PoE+ Backup 3B	9 g.Ar	Backup 3E		
torage: 9 months without recharging. 0 year service life. dvanced management settings, cell balancing, c built-in push button disconnects the backup via Backup duration according to output power	a static switch. The battery is automatical - 55 W (Type 3) CABINETS PoE / PoE+ Backup 3B	y reconnected when mair	Backup 3E minutes		
torage: 9 months without recharging. 0 year service life. dvanced management settings, cell balancing, c built-in push button disconnects the backup via Backup duration according to output power Operating power 5 W	a static switch. The battery is automatical - 55 W (Type 3) CABINETS PoE / PoE+ Backup 3B	9 g.Ar	Backup 3E minutes 5h01		
torage: 9 months without recharging. 0 year service life. dvanced management settings, cell balancing, c built-in push button disconnects the backup via Backup duration according to output power Operating power 5 W 7 W	a static switch. The battery is automatical - 55 W (Type 3) CABINETS PoE / PoE+ Backup 3B	9 g.Ar	Backup 3E minutes 5h01 4h		
torage: 9 months without recharging. 0 year service life. dvanced management settings, cell balancing, c built-in push button disconnects the backup via Backup duration according to output power Backup duration according to output power 5 W 7 W 10 W	a static switch. The battery is automatical - 55 W (Type 3) CABINETS PoE / PoE+ Backup 3B	9 g.Ar	Backup 3E minutes 5h01 4h 3h04		
torage: 9 months without recharging. 0 year service life. dvanced management settings, cell balancing, c built-in push button disconnects the backup via Backup duration according to output power Backup duration according to output power Deperating power 5 W 7 W 10 W 15 W	a static switch. The battery is automatical - 55 W (Type 3) CABINETS PoE / PoE+ Backup 3B	9 g.Ar	Backup 3E minutes 5h01 4h 3h04 2h12		
torage: 9 months without recharging. 0 year service life. dvanced management settings, cell balancing, c built-in push button disconnects the backup via Backup duration according to output power Backup duration according to output power Dereting power 5 W 7 W 10 W 15 W 20 W	a static switch. The battery is automatical - 55 W (Type 3) CABINETS PoE / PoE+ Backup 3B	9 g.Ar	Backup 3E minutes 5h01 4h 3h04 2h12 1h42		
torage: 9 months without recharging. 0 year service life. dvanced management settings, cell balancing, c built-in push button disconnects the backup via Backup duration according to output power Backup duration according to output power 5 W 7 W 10 W 15 W 20 W 25 W	a static switch. The battery is automatical - 55 W (Type 3) CABINETS PoE / PoE+ Backup 3B	9 g.Ar	Backup 3E minutes 5h01 4h 3h04 2h12 1h42 1h23		
torage: 9 months without recharging. 0 year service life. dvanced management settings, cell balancing, c built-in push button disconnects the backup via Backup duration according to output power Backup duration according to output power 5 W 7 W 10 W 15 W 20 W 25 W 30 W	a static switch. The battery is automatical - 55 W (Type 3) CABINETS PoE / PoE+ Backup 3B Autono	9 g.Ar	Backup 3E minutes 5h01 4h 3h04 2h12 1h42 1h23 1h10		
torage: 9 months without recharging. 0 year service life. dvanced management settings, cell balancing, c built-in push button disconnects the backup via Backup duration according to output power Backup duration according to output power 5 W 7 W 10 W 15 W 20 W 25 W	a static switch. The battery is automatical - 55 W (Type 3) CABINETS PoE / PoE+ Backup 3B Autono	9 g.Ar	Backup 3E minutes 5h01 4h 3h04 2h12 1h42 1h23		
torage: 9 months without recharging. 0 year service life. dvanced management settings, cell balancing, c built-in push button disconnects the backup via Backup duration according to output power Backup duration according to output power Operating power 5 W 7 W 10 W 15 W 20 W 25 W 30 W 35 W	a static switch. The battery is automatical - 55 W (Type 3) CABINETS PoE / PoE+ Backup 3B Autono	9 g.Ar	Backup 3E minutes 5h01 4h 3h04 2h12 1h42 1h23 1h10 1h		
torage: 9 months without recharging. 0 year service life. dvanced management settings, cell balancing, c built-in push button disconnects the backup via Backup duration according to output power Backup duration according to output power Backup duration Operating power 5 W 7 W 10 W 15 W 20 W 25 W 30 W 35 W 40 W	a static switch. The battery is automatical - 55 W (Type 3) CABINETS PoE / PoE+ Backup 3B Autono	9 g.Ar	Backup 3E minutes 5h01 4h 3h04 2h12 1h42 1h23 1h10 1h 1h 0h53		

SYNAPS POE 2 / POE 4 DATASHEET

LED for status display an	d control (on board).					
Steady green	Flashing green	Slow flash	ing orange	Fast flashing orange	Red	
Normal mode	ECO mode Stealth mode	Backup mode	3	Installation fault - Overcurrent, short circuit - Low voltage output (product overload). - Power supply temperature too high - No mains (outside specified power supply range). End of backup imminent	 UPS to be changed If no output voltage If power supply out of order (charger fault). Backup fault Backup undervoltage. Backup overvoltage. 	
LEDs to give the status o	f the Ethernet port activity (Link / Act)				
	Steady green			Flashing green		
Connection established			- Connection - Activity on	established the Ethernet link		
LED to give the status of	the PoE / PoE + power supp	ly				
	Steady orange			Off		
PoE active			PoE inactive			
Communication						
temperature of the UPS	DC) and to configure its sett	ings via the on-board	HTTPS website	current, % of backup remaining, ccted equipment and to transmi		
Auto MDI/MDI-X			yes			
MAC address table			8,000 entries			
Transmission method			Store & Forw	rward		
Internal switch capacity			650 Mbps	S		
Frame size and latency (max)		1,518 octets	518 octets / 126 μs		
Improved version of the	micro program		Upgrade via HTTPS web browser			
Protocols supported: IPv	4, HTTPS, TCP, UDP, ICMP, A	RP, DHCP, SNMP V1 &	V3, BACnet IP.			
> Accessories and opti	ons					
Mod	lel		Description			
A KIT SYNAPS MP SST	Pos	t mounting kit				
A KIT SYNAPS MURAL	Wa	ll mounting kit				
A KIT SYNAPS ANTI VANI	DAL Ant	i-vandalism kit: proteo	ction against ca	ble cutting		
A KIT CONVERTER 55 12	VDC Vol	age converter: input 5	55 V DC, outpu	t 12 V DC		
	VDC Vol	age converter: input 5	55 V DC, outpu	t 24 V DC		
A KIT CONVERTER 55 24	OE1224 Inje	ctor/converter from II	EEE 802.3af/at	PoE to 12 or 24 V DC PoE		
		Ethernet/fibre optic media converte		fiber ports)		
A KIT CONVERTER POE P	E 1 Eth	hernet/fibre optic media converter (2		r (2 fiber port)		
A KIT CONVERTER POE P A KIT CONVERTER FO PC		ernet/fibre optic medi	a converter (2	/PoE network		
A KIT CONVERTER POE P A KIT CONVERTER FO PC A KIT CONVERTER FO PC	E 2 Eth	ernet/fibre optic medi xial extension kit for E		network		
A KIT CONVERTER POE P A KIT CONVERTER FO PC A KIT CONVERTER FO PC A KIT EXTENDER POE CC	AX Coa	7	thernet /PoE r			
A KIT CONVERTER 55 24 A KIT CONVERTER POE P A KIT CONVERTER FO PC A KIT CONVERTER FO PC A KIT EXTENDER POE CO A KIT SWITCH 5 PORTS E A KIT SPLICE CASSETTE	PE 2 Eth AX Coa PV 5-p	xial extension kit for E	thernet /PoE r			





OUTDOOR

Uninterrupted videoprotection and connected city devices

The SYNAPS PoE 5 and PoE 6 cabinets enable a quick deployment of the connected objects in the city. They contain all the necessary equipment required to build a connection and provide the essential software functions to securely connect to the network.



Synaps PoE 5 Synaps PoE 6 **300 x 400 x 150 mm**



Built-in functions

- \sim PoE power supply for equipments up to 90 W
- \sim Managed 5 or 6 port switch Layer 2
- \sim Up to 2 fiber links for a redundant remote connection with RSTP protocol
- \sim Secure webserver and SNMP link
- ∼Supplies up to 150 W on Power Over Ethernet
- \sim Configurable auxiliary voltage: 12 V DC or 24 V DC
- \sim Automatic reboot configurable on each port
- \sim 10 kA lightning arrester for lightning strikes

Benefits of the SYNAPS PoE 5 / PoE 6 range

- \sim Manages the data flows thanks to its dedicated functions (VLAN, Multicast, QoS, SysLog, ...)
- \sim Protects against lightning strikes and power outages
- \sim Ensures an uninterrupted operation 365 days a year with automatic 1st-level maintenance
- \sim Transmits data up to 20 km by optical fiber
- \sim Provides space for customer equipment
- \sim Designed for outdoor use with waterproof, vandalproof box
- \sim Lithium battery SLAT with 10-year service life

*Extension of the manufacturer's warranty possible, contact us for details.

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
SYNAPS POE 5 /	PoE 6		
SYNAPS-POE 5F V 4P1C	6.3 kg	300 x 400 x 150	89252764
SYNAPS-POE 5F V 4P2C	6.3 kg	300 x 400 x 150	89452764
OPTIONS	CODE	OPTIONS	CODE
A KIT SYNAPS MP HIGH BOX SST	90000228	A KIT SPLICE CASSETTE	90000223
A KIT SYNAPS MURAL	90000222	A KIT EXTENDER POE COAX	90000215
A KIT SYN TAMPER SWITCH	90000204	PROTEC SMJ8-POE-A	5090020888
A KIT POE PASSIF	4690004000		

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DATASHEET SYNAPS PoE 5 / PoE 6

> Mechanical characte	eristics							
Boxes	Size W x H x D (mm)	Available customer space (min) W x H x D (mm)	Weight (kg)	Materials	Protection rating	CdA	Installation	
High Box	300 x 400 x 150*	107 x 160 x 115 130 x 160 x 115	6.3	Poly-carbonate	IP65 / IK10	0.132	Wall or post mounted	
* H with cable glands: +	35 mm / P with loc	ks: + 20 mm	1	<u> </u>				
Connections								
Mains	3 (2+PE) Screv	w terminals on the lightning arre	ester (230 V A	C power supply)				
PoE/PoE+/HiPoE ports	4 RJ45 ports (Ethernet cable	100 Mbps) : e Category 5 or more, shielded,	straight or tw	isted cables				
Combo ports (SYNAPS PoE 5)	1 Combo port	: or RJ45 port: Ethernet ca SFP port: SFP module			ed, straight or twist	ted cables (1 Gbps)	
Combo ports (SYNAPS PoE 6)	2 Combo port	RJ45 port: Ethernet ca	ble Category 5	se or more, shield	ed, straight or twist	ted cables (1 Gbps)	
DC Output		Screw terminal with plug-in con						
Digital Input		al with plug-in connector with p		-				
<u> </u>			-					
Dry Contact Cable cross-section		al with plug-in connector with p	-	open collector: St) MA @ 60 V DC)			
		^e (Mains, digital input and dry co	intact)					
Cable feedthrough		ht cable glands						
> Electrical input char	acteristics							
AC network voltage		175 V to 265 V AC single-phas	e					
Frequency		45 Hz à 65 Hz						
Class		1						
Inrush current		25 A, limited by NTC						
Neutral system		TT, TN						
Protection against		primary short-circuit and diffe	erential mode	shock waves				
Primary current @ 175		1.3 A						
Primary current @ 265		0.7 A						
Upstream circuit breake	er to be provided	D curve						
Lightning arrestor		Type 2 / 10 kA (Synaps PoE 5) Type 2 / 40 kA (Synaps PoE 6)						
> Electrical output cha	aracteristics	1						
Maximum power (PoE +	- DC Output)	150 W						
РоЕ								
PoE ports		5 or 6 PoE / PoE+ / passif PoE	ports includin	g 2 HiPoE ports				
PoE/PoE+		IEEE 802.3af/at - 15 W / 30 W	' per port; Mo	de B				
HiPoE		IEEE 802.3bt - 15 W / 30 W /	60 W / 90 W p	er port; power su	pply over 4 PoE pai	rs (4PPoE)		
Passif PoE		PoE 55 V : all PoE ports PoE 12V / PoE 24V : Combo p	ort(s)					
PoE budget		Per port PoE function configu	ration					
Operating output								
DC output		12 V DC or 24 V DC						
Current limitation		12 V DC : In = 7.2 A, U > 50% I 24 V DC : In = 4.4 A, U > 50% I						
Output voltage regulation $\leq 1\%$								
LF ripple		<5 mV effective at In						
Max. available power at	DC output	12 V DC : 60 W 24 V DC : 96 W						

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> Switch properties						
Switch	Layer 2					
Queues per port	4	4				
Max. number of VLANs	4094					
VLAN ID range	VID 1 to 4094	VID 1 to 4094				
Max. number of IGMP groups (multicast)	1024					
Number of MAC addresses	Up to 8000 MAC addresses					
Max. length Jumbo Frame	10 kB					
Packet buffer memory	1 Mbit					
Communication						
	PoE ports	10 / 100 Mbps				
Communication speed	Combo ports	100 / 1000 Mbps				
Application layer protocols	HTTP, HTTPS, SNMP (v1, v2c, v3					
Network layer protocols	IPv4, ICMP	<i>)),</i>				
Management (Web, SNMP)						
Management (Web, SNWP)	Built in switch configuration ut	ility for browser-based device configuration (HTTPS). Supports				
Web GUI interface / Web server	-	rd, maintenance and monitoring; Visualisation of the operating				
Firmware update	Upgrade via web browser (HTT	PS)				
SNMP	SNMP v1, v2c , v3					
Alarm management	SNMP trap sending					
> Switching characteristics						
The configuration of the switch functions is	done via the embedded website.					
Switch Layer 2						
VLAN	Supports up to 4K VLANs simul tag-based VLAN	Supports up to 4K VLANs simultaneously (out of 4094 VLAN IDs); Port-based VLAN; 802.1Q tag-based VLAN				
IGMP v1/v2 Snooping		ve multicast traffic to only the requesters; it supports 1024 ic multicasting is also supported)				
Uplink	Uplink mode limits the sending	Uplink mode limits the sending of multicast traffic on the combo port				
Log/SysLog	Records events locally and send	Records events locally and sends them to one or two specific servers				
NTP	Allows the switch clock to be sy	Allows the switch clock to be synchronised with the network clock				
	Standard Spanning Tree (STP)	EEE 802.1D				
Spanning Tree Protocol (STP)	Rapid Spanning Tree (RSTP) IEE	E 802.1w				
Security						
Website	HTTPS (HTTP operation possibl Management administrator acc					
HTTPS	Authentication and encryption Allows secure access to the swi					
SNMP	SNMP V3 with data encryption					
Protocol for securing exchanges	TLS (Transport Layer Security, v SSL not supported (banned by					
Quality of Service						
Hardware Priority Queue	Supports 4 hardware queues					
Cala a du lin a	Strict priority and weighted rou	ind-robin (WRR)				
Scheduling	Queue assignment based on DS	CP and class of service (802.1p/ CoS)				
Classification	Port based; 802.1p VLAN priori	ty based; IPv4 precedence/ type of service (ToS) / DSCP based				
Green Ethernet						
Link detection	Compliant IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power on Gigabit Ethernet RJ45 port when detecting link down or Idle of client. Active mode is resumed without loss of any packets when the switch detects the link up.					
Cable length detection	Adjusts the signal strength base shorter cables.	Adjusts the signal strength based on the cable length. Reduces the power consumption for shorter cables.				
Eco Mode	Shifts automatically to power-s	Shifts automatically to power-saving mode.				

DATASHEET SYNAPS PoE 5 / PoE 6

> Signaling					
	F activity on the corres	nonding port			
5 or 6 LEDs indicate the PoE activity on the corresponding port 5 or 6 LEDs indicate the data transmission activity on the corresponding port					
1 LED indicates the operation of the lightning arrestor					
> Environmental specifica	ations				
Temperature					
Storage	-20°C +45°C				
Operating) W nominal power in backup and normal mode			
	-10°C +45°C at 150) W nominal power in backup and normal mode			
Humidity					
From 0 to 100% condensing	5				
Altitude					
Above 2,000 m, the temper	rature decreases by 5%	5 every 1,000 m			
Working life					
10 years at 25 °C product e	xternal environment, r	ated mains voltage, 75% load.			
> Caractéristiques fonction					
Operation	1	aving mode when the backup is charged.			
Network filtering	Filters out power grid				
Cooling	Without fan.				
Autonometer		ntage of the remaining autonomy.			
Restart function		te control of the on/off function per PoE port / DC output.			
DAM function		g of the connected products with an automatic reboot in the event of a fault. Configurable per port.			
Protections	Allows the monitorin	g of the connected products with an automatic reboot in the event of a fault. Conngulable per port.			
		primary (10 kA lightning arrester).			
Against too high currents o					
-		but by disconnectiong the PoE port.			
> Lithium LFP Smart Back					
Latest generation Lithium L		p risk of thermal runaway).			
Lead-free, cadmium-free, 1					
Storage: 9 months without	recharging.				
10 year service life.					
Advanced management set	tings, cell balancing, o	vercurrent and overvoltage protection.			
> Backup duration accord	ling to output power				
		Backup F			
Operating		Autonomy expressed in hours and minutes			
10 W		4h24			
20 W		2h28			
30 W 40 W		1h43 1h19			
50 W		1h04			
60 W		0h54			
70 W 0h46					
80 W 0h41					
90 W 0h36					
100 W 0h33					
110 W 0h30					
120 W 0h27					
	130 W 0h25				
140 W 0h23					
150 W	V	0h22			

DATASHEET SYNAPS PoE 5 / PoE 6

> Standards	
IEEE Standards	
IEEE 802.1D	Standard Spanning Tree
IEEE 802.1w	Rapid Spanning Tree (RSTP)
IEEE 802.1Q	VLAN
IEEE 802.3i	10BaseT
IEEE 802.3u	100BaseT(X) and 100BaseFX
IEEE 802.3ab	1000BaseT(X)
IEEE 802.3z	1000BaseX
IEEE 802.3x	Flow Control
IEEE 802.3af	POE
IEEE 802.3at	PoE+
IEEE 802.3bt	HiPoE (type 1 à 4)
IEEE 802.3az	Energy Efficient Ethernet
Electrical and safety standard	S
Safety	EN 62368-1 (2020), EN 62368-3 (2020)
EMC - Immunity	EN 61000-6-1 (2007), EN 61000-6-2 (2019)
	EN 61000-6-3 (2007), EN 61000-6-4 (2019)
EMC - Emissions	EN 61000-3-2 (2019) (class A)
	EN 55032 (2015) (class A)
Other standards	
Transport approval	UN 38.3

 $\ensuremath{^*\text{SLAT}}$ reserves the right to modify the characteristics of its products without prior notice.

Network interface with built-in managed switch (HiPoE, fiber) and Lithium LFP backup



PoE/PoE+/HiPoE (IEEE 802.3af/at/bt)

OUTDOOR

 Designed to meet the requirements of video applications, connected city objects along with WiFi and Mesh security networks



Built-in functions

- ∼Provides 180 W in Power Over Ethernet
- \sim Powers and secures up to 8 PoE/PoE+/HiPoE devices
- \sim Two independent or redundant fiber links
- \sim Managed layer 2 switch
- \sim Protected and backed-up switch with extended security features
- \sim Device Activity Monitoring for an automatic reboot of each port.
- \sim Control of the connected objects by secured webserver
- \sim 10 kA lightning arrester for lightning strikes
- \sim Long-life LiFePO4 battery technology

Key product features

- \sim Powers all types of PoE cameras up to 90 W
- \sim Allows data transmission to up to 20 km via optical fiber
- \sim Efficiently manages the video flows thanks to its multiple dedicated functions
- \sim Eliminates brown-outs and provides at least 14 minutes of backup
- \sim Protects the equipment from lightning and electromagnetic disturbances
- \sim Provides space for customer equipment (4G modem, recorder...)
- \sim Designed for outdoor use with a watertight, vandalproof box and a stainless steel plate
- \sim Easy to install thanks to its large door with key lock

*Extension of the manufacturer's warranty possible, contact us for details

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
SYNAPS PoE 8			
SYNAPS-POE 5F V 8P2F	6,6 kg	300 x 400 x 150	89952765
OPTIONS	CODE	OPTIONS	CODE
A KIT SYNAPS MP HIGH BOX SST	90000228	A KIT SPLICE CASSETTE	90000223
A KIT SYNAPS MURAL	90000222	A KIT EXTENDER POE COAX	90000215
A KIT SYN TAMPER SWITCH	90000204	PROTEC SMJ8-POE-A	5090020888
A KIT CONVERTER POE POE1224	90000214		

SNMP / BACnet IP communication

Boxes	Size W x	H x D (mm)	Available customer space W x H x D (mm)		Weight (kg)	Materials	Protection rating	CdA	Installation
High Box	300 x 4	00 x 150* 110 x 160 x 115 130 x 160 x 115			6.6	Poly- carbonate	IP65 / IK10	0.132	Wall or post mounted
* H with cable glands	s: + 35 mn	n / D with locl	ks: + 20 mm						
Connections		0 (0 DE) 0							
Mains		3 (2+PE) Scre	w terminals on the lighting	-					(1110 5)
PoE ports		8 RJ45 ports		shielded, st	ble Category 5 raight or twiste	e or more (P ed cables	oE/PoE+)/ Category	/ 6a or m	iore (HIPOE)
SFP ports		2 SFP ports		SFP module	1000 Mbps tra	ansceiver			
Digital Input/ Dry C	Contact	Screw termin	al with plug-in connector v	ith polarizin	g slot				
Cable feedthrough vi	ia 8 water	tight cable gla	ands (PSG22)						
> PoE									
PoE/PoE+/HiPoE Ports			4 ports, support PoE Power Pin Type: End-span (Mode A) IEEE 802.3af/at/bt - 15 W / 30 W / 60 W / 90 W per port						
PoE/PoE+ Ports				4 ports, support PoE Power Pin Type: End-span (Mode A) IEEE 802.3af/at - 15 W / 30 W per port					
Power				Per port l	PoE function co	onfiguration			
PoE Budget				180 W					
> Communication									
Communication speed			PoE ports			10 / 100 / 100	0 Mbps		
commonication spe	cu			SFP ports			100 / 1000 Mb	ps	
Application layer p	rotocols			HTTPS, BACnet IP, SNMP (v1, v2c, v3), DHCP					
Network layer prot				IPv4, ICMP					
> Switch properties	5								
Priority Queues				8					
Max. Number of VI	LANs			4094					
VLAN ID Range				VID 1 to 4094					
IGMP Groups			1024						
MAC Table Size			Up to 8K MAC addresses						
Jumbo Frame Size				9.6 KB					
Performance				1					
Capacity of the forv (Mpps) (64-byte page	warding ı ckets)	rate in Millio	ns of Packets per Second	14.88 Mpps					
Switching Capacity	in Gigab	its per Secor	nd (Gbps)	20 Gbps					

> Switching characteristics	
Layer 2 Switching	
Spanning Tree Protocol (STP)	Standard Spanning Tree (STP) IEEE 802.1D
	Rapid Spanning Tree (RSTP) IEEE 802.1w
Aggregation	Link Aggregation Control Protocol (LACP) IEEE 802.3ad; Up to 5 groups, up to 8 ports per group
VLAN	Supports up to 4K VLANs simultaneously (out of 4094 VLAN IDs); Port-based VLAN; 802.1Q tag-based VLAN
IGMP v1/v2 Snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters; it supports 1024 multicast groups (source-specific multicasting is also supported)
Security	
Secure Sockets Layer (SSL), HTTPS	SSL encrypts the http traffic, allowing advance secure access to the browser-based management GUI in the switch
Port Sicherheit	Locks MAC Addresses to ports, and limits the number of learned MAC addresses
IP Source Guard	Prevents datagram with spoofed addresses from being in the network
Storm control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast or unicast storm on a port
ACLs	Supports for up to 256 entries; Drop or rate limitation based on source and destination MAC, VLAN ID or IP address, protocol, port, differentiated services code point (DSCP) / IP precedence, TCP/ UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag
Quality of Service	
Hardware Priority Queue	Supports 8 hardware queues
Scheduling	Strict priority and weighted round-robin (WRR)
Schedoling	Queue assignment based on DSCP and class of service (802.1p/ CoS)
Classification	Port based; 802.1p VLAN priority based; IPv4 precedence/ type of service (ToS) / DSCP based
Rate Limiting	Ingress policer; egress shaping and rate control; per VLAN, per port and flow based
Management (Web/SSL, SNMP, BACnet)	
Web GUI interface	Built-in switch configuration utility for browser-based device configuration (HTTPS). Supports configuration, system dashboard, maintenance and monitoring.
Firmware upgrade	Web browser upgrade (HTTPS)
Port mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be mirrored to a single destination port. A single session is supported.
Other management	Single IP management; HTTPS; RADIUS; DHCP Client; SNTP; cable diagnostics
Green Ethernet	
Link detection	Compliant IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power on Gigabit Ethernet RJ45 port when detecting link down or Idle of client. Active mode is resumed without loss of any packets when the switch detects the link up.
Cable length detection	Adjusts the signal strength based on the cable length. Reduces the power consumption for shorter cables.
Eco Mode	Shifts automatically to power-saving mode.
Discovery	
Link Layer Discovery Protocol (LLDP)	Used by network devices for advertising their identities, capabilities and neighbors on a IEEE 802 local area network, principally wired Ethernet.
The configuration of the switch functions is done w	ia the embedded website.

SYNAPS POE 8 DATASHEET

> Signaling						
1 LED for the "PoE Load" level on the front panel						
1 LED for the product "Status" on the front panel						
3 LEDs indicate the PoE activity on the corresponding port (green)						
8 LEDs indicate the data transmission activity on the corresponding						
> Environmental specifications						
Temperature						
Storage	-20°C à +45°C					
	at 100% load: -10°C +45°C					
Operating	at 50% load: -10°C +50°C					
Humidity						
0 to 100 % condensing						
Altitude						
Above 2,000 m, the temperature decreases by 5% every 1,000 m.						
Service life						
10 years at 25°C product external environment, rated mains voltage	. 75% load					
> Electrical characteristics	,					
Network Input						
AC network voltage	198 to 264 V AC					
Frequency	45 to 65 Hz					
Class	1					
Inrush current	Limited by NTC					
Neutral system	TT, TN, IT					
Protection against	primary short-circuit and differential mode shock waves					
Primary current @ 198 V	1.85 A					
Primary current @ 264 V	1.70 A					
Lightning arrestor	Type 2 / 10 kA					
Functional characteristics	19pe 2 / 10 kA					
Operates in power-saving mode when the backup is charged. On/Off function per PoE port.						
Filters disturbances of the electrical network.						
Fan-cooling.						
Configurable reboot function (stop and restart automatically) on each	ch DoE_port					
Indicates the % of the remaining autonomy.						
Protections						
Against atmospheric or industrial overvoltage on primary (10 kA ligh	ntning arrester)					
Against overload by power limitation to P_n +10%.						
Against overcurrent and short-circuits on the output by disconnectin	age the PoE nort at $L > L + 10\%$					
Smart backup	<u> </u>					
SYNAPS-PoE 8 is available with the backup pack	5F					
Latest generation Lithium LiFePO4 Technology (no risk of thermal ru						
Lead-free, cadmium-free, 100% recyclable.						
Storage: 9 months without recharging.						
10 year service life.						
Advanced management settings, cell balancing, overload and overv	pltage protection.					
Advanced management settings, cell balancing, overload and overvoltage protection. A built-in push button disconnects the backup via a static switch. The battery is automatically reconnected when mains voltage is restored						
A sum in pash sucton alsonneets the backup via a static switch. In	e succer, is automatically reconnected when mains voltage is restored					

SYNAPS POE 8 DATASHEET

Backup duration according to output po	wer					
		Backup F				
Operating power		Autonomy expressed in hours and minutes				
10 W		2h07				
20 W		1h29				
30 W		1h09				
40 W		0h55				
50 W		0h46				
60 W		0h40				
70 W		0h35				
80 W		0h31				
90 W		0h28				
100 W		0h25 0h23				
110 W 120 W		0h21				
130 W		0h20				
130 W		0h18				
140 W		0h17				
160 W		0h16				
170 W		0h15				
180 W		0h14				
> Standards		VITT				
IEEE Standards						
IEEE 802.1D	Standard Spanning Tree					
IEEE 802.1w	Rapid Spanning Tree (RS	517)				
IEEE 802.1Q	VLAN					
IEEE 802.1X	Radius					
IEEE 802.3ad	Link Aggregation Contro	ol Protocol (LACP)				
IEEE 802.3i	10BaseT					
IEEE 802.3u	100BaseT(X) and 100Ba	seFX				
IEEE 802.3ab	1000BaseT(X)					
IEEE 802.3z	1000BaseX					
IEEE 802.3x	Flow Control					
IEEE 802.3af	PoE					
	PoE+					
IEEE 802.3at						
IEEE 802.3bt	HiPoE (type 3 & 4)					
IEEE 802.3az	Energy Efficient Etherne					
Electrical standards						
Safety	EN 62368-1 (2020) + A12	1 (2020)				
EMC - Immunity	EN 61000-6-1 (2007), EI	N 61000-6-2 (2019)				
	EN 61000-6-3 (2007), EI	N 61000-6-4 (2019)				
EMC - Emissions	EN 61000-3-2 (2019) (cl	ass A)				
	EN 55032 (2015) (class	ass A) B) CE ((((((((((((((((((
Security standards						
Transportation security	UN 38.3					
> Accessories and options	I	> Accessories and options				
Wall mounting kit		Converter: input IEEE 802.3af/at PoE to 12 or 24 V DC PoE				
Cable protection kit		Surge protector for PoE/PoE+/HiPoE ports				
Pole mounting kit	Coaxial extension kit for Ethernet / PoE network					
Housing opening contact kit		Splice cassette				
		Sprice cassette				

*SLAT reserves the right to modify the characteristics of its products without prior notice.



OUTDOOR



An industrial product designed and assembled for your application, your environment and your equipment.

Specific to the needs for outdoor video applications along with WiFi and Mesh network security requirements.



Your benefits

Entrust the design to our experts:

- \sim 1 order only.
- \sim Pre-assembled product.
- \sim Time saved during your installations.
- \sim Guaranteed smooth operation of the system.
- \sim Peace of mind with the CE marking.
- \sim 2-year global warranty with option to extend.

Benefits of the SYNAPS range

- \sim Eliminates brown-outs and provides emergency power according to your needs.
- Protects equipment against lightning and electromagnetic disturbances.
- \sim Back-up technology service life ten years.
- \sim Designed for outdoor use, with IP65 watertight and IK10 vandalism-proof locked cabinet.
- \sim Ultra compact and lightweight product.
- ∽ Monitoring by secure protocols: HTTPS / SNMP V1, V2c and V3 / BACnet IP.

Options (mounted)	Benefits
Switch	Ethernet switch: 2 to 8 ports PoE switch: 2 to 4 PoE ports + 1 Ethernet Uplink Managed PoE-Switch: 8 PoE-Ports + 2 SFP-Ports
Power supply	Power supply to connected equipment: total power 55 W - 180 W Filters interference from the electrical grid
Back-up	Built-in emergency power
Mains lightning arrester	Protection up to 40 kA
Load lightning arrester	Protection of Ethernet and PoE/PoE+/HiPoE outlets
Voltage converter	Output voltages 12 / 24 / 36 / 55 V DC
PoE injector	Equipment power supply: PoE / PoE+ / HiPoE (IEEE 802.3af/at/bt) PoE 12 V / PoE 24 V Passive PoE
Media converter	Connection to fibre and coaxial networks
230 V socket	Connecting/plugging in maintenance equipment
Tamper detection	Contact for break-in detection
Extreme Cold	Operation at extremely low outdoor temperature (up to - 40°C)
Splice cassette	Separation of the fiber strands and creation of the splice
Accessories	Benefits
Anti-vandalism kit	Protection against cable cutting
Pole mounting kit	Fixing on a mast/pole or wall

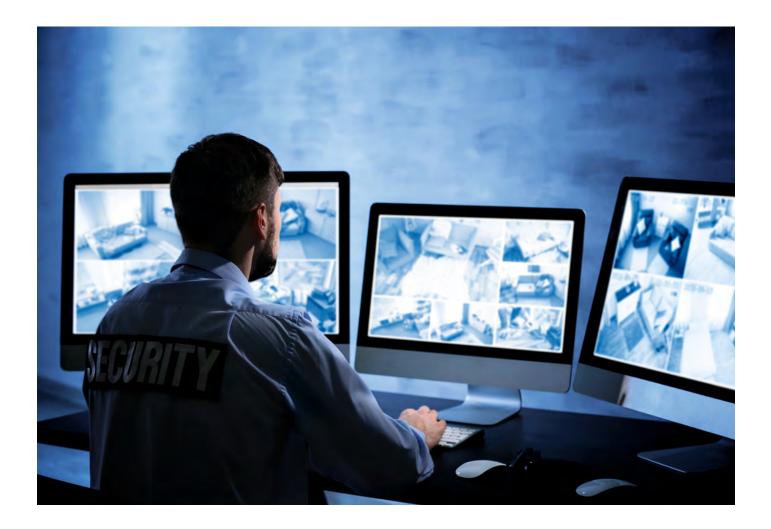
The customised SYNAPS: all the benefits of a standard SYNAPS adapted to your installations.

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BUILDING MANAGEMENT

SLAT BRINGS INNOVATIVE SOLUTIONS TO YOUR TECHNICAL NETWORKS



With the proliferation of information exchange points in the technical networks of buildings, towns and cities or fluid networks, a communication solution is necessary to reduce operational maintenance costs.

SDC products meet this requirement and offer a variety of media and protocols for data exchange. They provide filtering of network disturbances by means of their built-in lithium battery with a 10-year lifespan.

The SDC-PoE range powers the objects connected by the RJ45 cable and ensures their operational maintenance even in the event of a software failure.



SELECTION GUIDE

	SDC-M RS	SDC-M IP	SDC-PoE	SDC-PoE 4	SDC-PoE 8	SDC-PoE 24
DC output voltage	12V / 24 V / 48 V	12 V / 24 V	55 V	-	-	-
Power	55 W	55 W	55 W	55 W	180 W	210 W
Brown-out protection only	Yes	-	-	-	-	-
Brown-out protection with autonomy (full load)	20 min / 40 min / 1h20	19 min / 1h19	20 min / 1h19	20 min / 39 min	14 min	12 min / 24 min
Switch	-	-	-	unmanaged	managed	managed
Ethernet ports	-	2	1	1	-	-
PoE/PoE+ ports	-	-	1	4	8	Up to 22
HiPoE ports	-	-	-	-	4	-
SFP Ports	-	-	-	-	2	Up to 4
SNMP	-	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3
BACnet	MS/TP	IP	IP	IP	IP	IP
Modbus	Up to 115200 bauds	-	-	-	-	-
Page	100	105	109	113	117	122







Micro-UPS with "Smart Backup Inside" and very long service life.



Built-in functions

- \sim Maintains the power supply in the event of a power failure or glitch.
- \sim Filters electromagnetic disturbances.
- \sim Avoids erratic operation due to network glitches.
- \sim Delivers a constant voltage to equipment.
- \sim Output voltage adjustable from -8% to +13%.

Key product features

- \sim Ultra-compact / Plug and Play, parallel configuration without accessories.
- \sim Performs self-diagnostic and that of its environment.
- \sim Selection of Modbus or BACnet configuration via a software.
- \sim Highly reliable Supercap or LiFePO4 technology.
- \sim Service life of more than 10 years.

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
SDC-M RS 12V			
SDC-M 12V 2D DMR RS	0.5 kg	161 x 92 x 65	81220102
SDC-M 12V 2D BOX2 RS	0.9 kg	285 x 198 x 61	81220212
SDC-M 12V 3B DIN1 RS	0.6 kg	100 x 124 x 82	81239112
SDC-M 12V 3D DIN1 RS	0.7 kg	100 x 124 x 82	81230112
SDC-M 12V 3D DIN1 RS DR	0.7 kg	100 x 124 x 82	81230912
SDC-M 12V 3G DIN2 RS	1.4 kg	100 x 124 x 122	81233122
SDC-M 12V 3D BOX2 RS	1.0 kg	285 x 198 x 61	81230212
SDC-M 12V 3G BOX2 RS	1.6 kg	285 x 198 x 61	81233212
SDC-M RS 24V			
SDC-M 24V 2D DMR RS	0.5 kg	161 x 92 x 65	81420102
SDC-M 24V 3B DIN1 RS	0.6 kg	100 x 124 x 82	81439112
SDC-M 24V 3D DIN1 RS	0.7 kg	100 x 124 x 82	81430112
SDC-M 24V 3E DIN2 RS	1.0 kg	100 x 124 x 122	81431122
SDC-M 24V 3G DIN2 RS	1.4 kg	100 x 124 x 122	81433122
SDC-M 24V 3G BOX2 RS	1.6 kg	285 x 198 x 61	81433212
SDC-M RS 48V			
SDC-M 48V 3B DIN1 RS	0.6 kg	100 x 124 x 82	81839112
SDC-M 48V 3D DIN1 RS	0.7 kg	100 x 124 x 82	81830112
SDC-M 48V 3G DIN2 RS	1.4 kg	100 x 124 x 122	81833122
SDC-M 48V 3D BOX2 RS	1.0 kg	285 x 198 x 61	81830212
SDC-M 48V 3G BOX2 RS	1.6 kg	285 x 198 x 61	81833212
OPTIONS			
A SETUP KIT SAFE DC RS	-	-	9000002
A KIT BOX2 TAMPER SWITCH	-	-	90000200

> Mechanical characteristics							
Boxes	Size W x H x D (mm)	W	'eight (kg)	Materials	Protection rating	Installation	
DIN1	100 x 124 x 82	0	.44 - 068	Aluminium	IP20	DIN rail	
DIN2	100 x 124 x 122	0.96 - 1.36		Aluminium	IP20	DIN rail	
DMR	161 x 92 x 65		0.5	ABS	IP20	DIN rail	
BOX2	285 x 198 x 61		0.9 - 1.6	ABS	IP30	Wall- mounted	
> Connections							
DIN1	DIN2			DMR	BOX2		
Screw terminals with plug-in co	nnectors with polarizing slot.		Two output	ts on screw terminals.	 Cable feedthrough glands or cable gro Screw terminals. 		
Connections: mains, 1 output, F	S485 communication						
Capacity of terminal blocks / Ca	ble size: 0.2 to 2.5 mm ²						
> Standard-based specification	5						
EN 62368-1 / EN 61000-6-1 / EN 6	1000-6-2 / EN 61000-3-2 A class				(E 🕾	\checkmark	
EN 61000-6-3 / EN 61000-6-4 / EN	I 55032 class B / UN 38.3					RoHS 3 2015/865	
> Environmental specifications							
Temperature							
Storage			25 to +60°C				
	Lithium Battery	-10 to +55°C at 100% load in normal and backup mode					
Operating		-5 to +55°C at 100% load in battery charge mode					
	Supercaps	-	40 to +55°C				
Humidity							
Storage				idity 10 to 95%			
Operating		r	relative humi	idity 20 to 95%			
Altitude							
Above 2,000 m, the maximum t	emperature decreases by 5% even	ry 1,0	00 m				
Service life							
	al environment, rated mains volta	age, 7	5% load				
> Electrical characteristics							
Network input							
Voltage network AC			99 to 264 V AC				
Voltage network DC			140 to 375 V DC				
Frequency			45 to 65 Hz				
Class		(Class 1				
Current			nrush curren	nt limited by NTC			
Neutral systems			IT, TN, IT				
Protection against			-	t circuit and differentia	al mode shock waves.		
Primary current @ 99 V AC		(0.8 A [30 W]	; 1.5 A [55 W]			
Primary current @ 264 V AC		0	D.8 A [30 W]	; 0.38 A [55 W]			

SDC-M RS DATASHEET

> Operating output							
Rated voltage (U _n)		12 V	DC	24 V DC	48 V DC		
Output current (I _n) 30 W		2.5		1.25 A	-		
Output current (I _n) 55 W		4.6		2.3 A	1.15 A		
Maximum output power				30 W / 55 W	212071		
Precision on voltage				1%			
Adjustment by potentiom	otor [55 W]			-8% to +13%			
Current limitation – short			P_{max} to P_{max} +10% with output voltage > 6 V				
Peak current				2 In during 0.004 second			
HF ripple peak-peak (20 M	(HZ-50 Ω)			< 4% of U _n			
Effective LF ripple				< 0.5% of U _n			
Static and dynamic regula	tion characteristics			tive changes in sector and lo			
Output (Smart Backup)		ŋ @ 20%	-	ŋ @ 75% loading	ŋ @ 100% loading		
		90%	%	93%	92%		
> Functional characteristi	cs						
Operates in power-saving n	node when the backup is	charged.					
Remote controlled stealth r	node.						
Filters disturbances of the e	electrical network.						
Indicates the % of remainin							
(not for 48 V) Parallel config	guration without accessor	ries for: power increase	/ increase of t	he backup / redundancy.			
Push-button disconnect of	the backup (reset).						
Smart backup							
	Type 30 W	-	2D	-	-		
Backup type	Type 55 W	3B	3D	3E	3G		
Latest generation Lithium	LiFePO4 technology: 2D), 3D, 3E, 3G - for back-u	up time, see t	able below.	I		
Back-up 3B - SuperCap tee							
Storage: 9 months without				·			
10 years service life.							
Advanced management so	ettings. cell balancing. o	verload and overvoltage	e protection.				
Protection against deep d							
<u> </u>		disconnects the backu	p via a static	switch. The battery is autom	atically reconnected when		
Backup duration accordin	g to output power - 30 V	V (Type 2)					
				DOV2			
		L	DMR	BOX2			
			- Aueralian	Sharen Bala			
		12 \	V / 24 V				
		12 \					
Operating power		Autonom	Backup v expressed ju	n hours and minutes			
5 W		Autonom	3h2				
7 W			2h3				
10 W			1h4				
15 W			1h1	3			
13 11				-			
20 W			0h5	.5			
			0h5 0h4 0h3	4			

SDC-M RS DATASHEET

	DIN1 12 V / 24 V / 48 V	DIN1 12 V / 24 V / 48 V		DIN2 12 V / 24 V / 48 V
		BOX2 12 V / 24 V / 48 V	Barras Bar	BOX2 12 V / 24 V / 48 V
	Backup 3B	Backup 3D	Backup 3E	Backup 3G
Operating power		Autonomy expressed in hours a	and minutes	
5 W		3h10	6h20	12h40
7 W		2h24	4h48	9h36
10 W		1h46	3h31	7h02
15 W		1h13	2h25	4h49
20 W		0h55	1h50	3h40
25 W		0h44	1h28	2h56
30 W	Minimum 3 seconds	0h37	1h14	2h27
35 W		0h32	1h03	2h06
40 W		0h28	0h55	1h50
45 W		0h25	0h49	1h39
50 W		0h22	0h44	1h28
55 W		0h20	0h40	1h20

Against overvoltages on primary (atmospheric or industrial causes) by varistor and filter.

Against surges in user output (connection error) by breaking with cyclical restart if output voltage > U_n +10%.

Against overcurrent by limiting the power supply to P_{n} +10%.

Against output short-circuits by disconnecting the power supply with cyclical restart.

MMI

LED for status display and control

Permanent green	Flashing green	Slow flashing orange	Fast flashing orange	Red
Normal mode	ECO mode Stealth mode	Backup mode	Installation fault - Overcurrent, short circuit. - Low voltage output (product overload). - Excessive power supply temperature - If no mains (outside speci- fied power supply range) End of backup imminent	 UPS to be changed If no output voltage. If power supply out of order (charger fault). Battery fault Backup undervoltage. Backup overvoltage.

Communication

A RS485 type serial link retrieves information remotely (product serial number, system status) and communicates the analog values (voltages and load current, % of remaining backup, rectifier, and internal temperature of the DC UPS).

The on-board Modbus communication protocol is factory set. it may can be configured in BACnet protocol via the configuration software that can be downloaded on www.slat.com (setup details in the manual).

1 dry contact (open collector): 60 V DC / 1.1 A

> Product references

Interpretation of the product reference designations: SDC-M [Voltage] [Backup] [Box] RS

*SLAT reserves the right to modify the characteristics of its products without prior notice.



DC Micro-UPS, SNMP / BACnet IP Protocols

SDC-M IP

12 V DC - 24 V DC

Micro-UPS with Smart Backup Inside and long service life.





DIN1 100 x 124 x 82 mm



Built-in functions

- \sim Backup LiFePO4 inside with very long life.
- \sim Reboot function available.
- \sim Open protocols HTTPS / SNMP / BACnet IP.
- \sim Closely securises IP applications' functions in case of a power cut.
- \sim Delivers a constant voltage to equipment, adjustable via HTTPS website, from -8% to +13%.

Key product features

- \sim Ultra-compact / Plug and Play.
- \sim Performs self-diagnostic and that of its environment.
- \sim Saves wiring.
- \sim 2 Ethernet ports protected against glitches.

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
SDC-M IP 12V			
SDC-M 12V 3D DIN1 IP	0.7 kg	100 x 124 x 82	81230113
SDC-M 12V 3G DIN2 IP	1.4 kg	100 x 124 x 122	81233123
SDC-M 12V 3D BOX2 IP	1.0 kg	285 x 198 x 61	81230213
SDC-M 12V 3G BOX2 IP	1.6 kg	285 x 198 x 61	81233213
SDC-M IP 24V			
SDC-M 24V 3B DIN1 IP	0.6 kg	100 x 124 x 82	81439113
SDC-M 24V 3D DIN1 IP	0.7 kg	100 x 124 x 82	81430113
SDC-M 24V 3G DIN2 IP	1.4 kg	100 x 124 x 122	81433123
SDC-M 24V 3D BOX2 IP	1.0 kg	285 x 198 x 61	81430213
SDC-M 24V 3G BOX2 IP	1.6 kg	285 x 198 x 61	81433213
OPTIONS			
A KIT BOX2 TAMPER SWITCH	-	-	90000200

Boxes	Size W x H :	(D (mm)	Weight (kg)	Mate	rials	Protection rating	Installatio	
DIN1	100 x 12		0.68	Aluminium		IP20	DIN Rail	
DIN2	100 x 124 x 122		0.96 - 1.36	Aluminium		IP20	DIN Rail	
BOX2	285 x 19	8 x 61	1 - 1.6	ABS		IP30	Wall- mounted	
Connections				1				
DIN1			DIN2			BOX2		
 2 Screw terminals with plug-ir (Input 110 / 230 V AC, 1 output) 2 RJ45 ports 100 Mbps. 	it 12-24 V DC)				- 2 Screv input 1	eedthrough via 3 cable v terminals on the PC b 10 / 230 V AC, 1 outpu ports 100 Mbps (on the	oard: t 12-24 V DC	
Network cables: Ethernet cable	Cat 5 or more / s	shielded or uns	hielded / straight or	twisted				
> Standard-based specification	s							
EN 62368-1 / EN 61000-6-1 / EN EN 61000-6-3 / EN 61000-6-4 / El Ethernet IEEE 802.3, IEEE 802.3u,	N 55032 class B / U	JN 38.3	y Efficient Ethernet EE	EE)		CE 🖏	RoHS 3 2015/965	
> Environmental specifications								
Temperature								
Storage			-20 to +45°C					
			-10 to +55°C	at 100% loa	d in norm	al and backup mode		
Operating	Lithium Batte	ry	-5 to +55°C a	t 100% load	in batter	y charge mode		
	Supercaps		40°C à +55°C	40°C à +55°C				
Humidity								
Storage			relative hum	idity 10 to 9	5%			
Operating			relative hum	idity 20 to 9	5%			
Altitude								
Above 2,000 m, the maximum of	operating temper	ature decrease	es by 5% every 1,000	m				
Service life								
10 years at 25 °C product externa	l environment, rat	ed mains voltag	ge, 75% load					
> Electrical characteristics								
Network input								
Voltage network AC			99 to 264 V A	AC				
Voltage network DC			140 to 375 V	140 to 375 V DC				
Frequency			45 to 65 Hz	45 to 65 Hz				
Class			Class 1					
Current			Inrush currer	nt limited by	V NTC			
Neutral systems			TT, TN, IT					
Protection against			Primary shor	t circuit and	l different	ial mode shock waves.		
Primary current @ 99 V AC			1.5 A					
, .								

SDC-M IP DATASHEET

Operating output					
Rated voltage (U _n)	12 V DC		24 V DC		
Output current (I _n)	4.6 A		2.3 A		
Maximum output power		55 W			
Precision on voltage		1%			
Adjustment via HTTPS interface		-8% to +13%			
Power limitation	P _{max} to	P _{max} +10% with output voltag	ge > 6 V		
Peak current	2 I _n for 0,012 second				
HF ripple peak-peak (20 MHz-50 Ω)		< 1.9% of U _n			
Effective LF ripple		< 0.3% of U _n			
Static and dynamic regulation characteristics	< 7% of U _n for cumula	tive changes in sector and lo	ad (from 10% to 90%)		
Output (Smart Backup)	ŋ @ 20% loading	ŋ @ 75% loading	ŋ @ 100% loading		
	85%	91%	90%		
> Functional characteristics					
Operates in power-saving mode when the backup is char	ged.				
Remote controlled stealth mode.					
Filters disturbances of the electrical network.					
Fanless.					
Reboot function (start and stop automatically) available.					
Indicates the % of remaining autonomy.					
Parallel configuration without accessories for: power inc	rease / increase of the backup	p time / redundancy.			
Disconnection of the backup via a pushbutton (reset).					
Smart backup					
SDC-M IP exists in 2 backup packs	3B	3D	3G		
Latest generation LiFePO4 Lithium Technology: Backup 3	D, 3G - for back-up time, see t	able below.			
Backup 3B - Supercaps technology with a backup time of	minimum 3 seconds at 100%	load - 500 000 cycles.			
Lead-free, cadmium-free, 100% recyclable.					
Storage: 9 months without recharging.					
10 years service life.					
Advanced management settings, cell balancing, overload	and overvoltage protection.				
Protection against deep discharge.					
A front panel pushbutton (on the board for BOX2) discor The backup is automatically reconnected when mains vo		switch.			
Protections					
Against overvoltages on primary (atmospheric or industr	ial causes) by varistor and filte	er.			
Against surges in user output (connection error) by breal	king with cyclical restart if out	put voltage > U_n +10%.			
Against overcurrent by limiting the power supply to $P_n + 2$	10%.				
Against output short-circuits by disconnecting the power	supply with cyclical restart.				

			annual -	
	DIN 24 V		DIN1 12 V / 24 V BOX2	DIN2 12 V / 24 V BOX2
		-	12 V / 24 V	12 V / 24 V
Operating power	Backup 3		Backup 3D my expressed in hours and min	Backup 3G
Operating power 5 W		Autono	2h54	11h38
7 W			2h3 1 2h15	9h
10 W			1h40	6h42
15 W			1h10	4h40
20 W			0h53	3h33
25 W	Minimum 3 se	conds	0h43	2h52
30 W			0h36	2h24
35 W			0h31	2h04
40 W			0h27	1h48
45 W			0h24	1h37
50 W 55 W			0h21 0h19	1h27 1h19
33 W			0113	
D for status display a eady green ormal mode	nd control (UPS DC Status) Flashing green ECO mode	Slow flashing oran Backup mode	nge Fast flashing orange	Red UPS to be changed
	Stealth mode		- Overcurrent, short (- Low voltage output (product overload). - Excessive power su	circuit - If no output voltage - If power supply out of orde (charger fault).
			e Excessive power su temperature - If no mains (outside fied power supply r End of backup immin	Backup faulte speci Backup undervoltage.ange) Backup overvoltage
Ds indicators for eacl	h Ethernet port status (Link/	Act)	temperature - If no mains (outside fied power supply r	Backup faulte speci Backup undervoltage.ange) Backup overvoltage
Ds indicators for eacl	n Ethernet port status (Link/. Steady green	Act)	temperature - If no mains (outside fied power supply r End of backup immir	Backup faulte speci Backup undervoltage.ange) Backup overvoltage
Ds indicators for eacl nnected		Act)	temperature - If no mains (outside fied power supply r End of backup immir	Backup fault e speci- ange) Backup undervoltage - Backup overvoltage nent
nnected mmunication	Steady green		temperature - If no mains (outside fied power supply r End of backup immin Fla - Connected - Ethernet link status	ashing Green
nnected mmunication ports 100 Mbps availa	Steady green	o-UPS to Ethernet N	temperature - If no mains (outside fied power supply r End of backup immin Fla - Connected - Ethernet link status Jetwork and remote informatio	Backup fault e speci- ange) Backup undervoltage - Backup overvoltage nent
nnected mmunication ports 100 Mbps availa	Steady green	o-UPS to Ethernet N	temperature - If no mains (outside fied power supply r End of backup immin Fla - Connected - Ethernet link status Jetwork and remote informatio	Backup fault - Backup undervoltage. - Backup overvoltage - Backup overvoltage ashing Green n (serial number, system status), analog
nnected mmunication ports 100 Mbps availa lues monitoring (out TPS website. to MDI/MDI-X	Steady green	o-UPS to Ethernet N	temperature - If no mains (outside fied power supply r. End of backup immin Fl: - Connected - Ethernet link status Jetwork and remote informatio status, internal temperature), a	Backup fault - Backup undervoltage. - Backup overvoltage - Backup overvoltage ashing Green n (serial number, system status), analog
nnected mmunication ports 100 Mbps avail lues monitoring (out TPS website.	Steady green	o-UPS to Ethernet N	temperature - If no mains (outside fied power supply re End of backup immin Flat - Connected - Ethernet link status letwork and remote informatio status, internal temperature), a yes	Backup fault - Backup undervoltage. - Backup overvoltage - Backup overvoltage ashing Green n (serial number, system status), analog
nnected mmunication ports 100 Mbps avail lues monitoring (out TPS website. to MDI/MDI-X AC Adress	Steady green	o-UPS to Ethernet N	temperature - If no mains (outside fied power supply r End of backup immin Fli - Connected - Ethernet link status Jetwork and remote informatio status, internal temperature), a yes 8,000 address	Backup fault - Backup undervoltage. - Backup overvoltage - Backup overvoltage ashing Green n (serial number, system status), analog
nnected mmunication oorts 100 Mbps avail lues monitoring (out TPS website. to MDI/MDI-X AC Adress ta Transfer Method ta Transfer Rate	Steady green	o-UPS to Ethernet N	temperature - If no mains (outside fied power supply r End of backup immin Fli - Connected - Ethernet link status letwork and remote informatio status, internal temperature), a yes 8,000 address Store & Forward 650 Mbps	Backup fault - Backup undervoltage. - Backup overvoltage - Backup overvoltage ashing Green n (serial number, system status), analog
nnected mmunication ports 100 Mbps availa lues monitoring (out TPS website. to MDI/MDI-X AC Adress ta Transfer Method ta Transfer Rate ame size and delay (r	Steady green	o-UPS to Ethernet N	temperature - If no mains (outside fied power supply r. End of backup immin Fli - Connected - Ethernet link status Jetwork and remote informatio status, internal temperature), a yes 8,000 address Store & Forward 650 Mbps 1 518 octets / 126 µs	Backup fault - Backup undervoltage. - Backup overvoltage - Backup overvoltage ashing Green In (serial number, system status), analor nd parameters setup with on-board
nnected mmunication ports 100 Mbps availa lues monitoring (out TPS website. to MDI/MDI-X AC Adress ta Transfer Method ta Transfer Rate ame size and delay (r odate program	Steady green	o-UPS to Ethernet N ackup time, mains	temperature - If no mains (outside fied power supply r. End of backup immin Fli - Connected - Ethernet link status Jetwork and remote informatio status, internal temperature), a yes 8,000 address Store & Forward 650 Mbps 1 518 octets / 126 µs Upgrade via HTTPS web brow	Backup fault - Backup undervoltage. - Backup overvoltage - Backup overvoltage ashing Green In (serial number, system status), analor nd parameters setup with on-board

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PoE / PoE+ (IEEE 802.3 af/at)



DC Micro-UPS, with integrated backup function, with a very long service life.

DIN1





Built-in functions

- \sim Powers all PoE / PoE + equipment.
- \sim PoE 30 W budget.
- ∼ Integrated LiFePO4 backup, with a very long service life.
- \sim Configurable reboot function.
- \sim HTTPS / SNMP / BACnet IP open communication protocols.

Key product features

- \sim Ultra-compact & plug-and-play.
- \sim Performs self-diagnostic and that of its environment
- \sim 1 secured PoE output
- \sim Operates as IP power supply: Max. power on terminal 55 W

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
SDC-PoE			
SDC-POE 3D DIN1 P1	0,7 kg	100 x 124 x 82	83930933
SDC-POE 3G DIN2 P1	1,4 kg	100 x 124 x 122	83933933

> Mechanical characteristics							
Boxes	Size W x H x D (mm)	Weight (kg)	Materials	Protection rating	Installation		
DIN1	100 x 124 x 82	0.68	Aluminium	IP20	DIN Rail		
DIN2	100 x 124 x 122	1.36	Aluminium	IP20	DIN Rail		
Connections							
	DIN1			DIN2			
 2 screw terminals with plug (Input 110 / 230 V AC, 1 out 1 RJ45 port 100 Mbps. 1 PoE/PoE+ port 100 Mbps. 	-in connectors with polarizing slot. put 55 V DC).						
Network cable: Ethernet cab	le Cat 5 or more / shielded or unshi	ielded / straight or t	twisted				
> Standard-based specificati	ons						
EN 61000-6-3 / EN 61000-6-4 /	N 61000-6-2 / EN 61000-3-2 A class ′ EN 55032 class B / UN 38.3 / IEEE 80 3u, IEEE 802.3x, IEEE 802.3az (Energy		EE)	CE 🖏	RoHS 3 2015/865		
> Environmental specificatio	ns						
Temperature							
Storage -20 à +45°C							
Operating		-10 to +55°C at	t 100% load in norma	l and backup mode			
Operating		-5 to +55°C at 2	100% load in battery	charge mode			
Humidity							
Storage		relative humid	relative humidity 10 to 95%				
Operating		relative humid	lity 20 to 95%				
Altitude							
Above 2,000 m, the maximur	n operating temperature decreases	s by 5% every 1,000) m				
Service life							
10 years at 25 °C product ext	ernal environment, rated mains vo	ltage, 75% load					
> Electrical characteristics							
Network input							
Voltage network AC		99 to 264 V AC					
Voltage network DC	Voltage network DC 140 to 375 V DC						
Frequency	requency 45 à 65 Hz						
Class	lass Class 1						
Current Inrush current limited by NTC							
Neutral systems		TT, TN, IT					
Protection against		primary short	circuit and differentia	I mode shock waves.			
Primary current @ 99 V AC		1.5 A					
Primary current @ 264 V AC 0.38 A							

SDC-POE DATASHEET

Operating output					
PoE technology	IEEE 802.3 af, IEEE 802.3 at,	PSE of type B			
Budget PoE on RJ45 port	30 W				
Maximum power on terminal block and PoE	55 W at 55 V				
	ŋ @ 20% loading	ŋ @ 75% dloading	ŋ @ 100% loading		
Output (Smart Backup)	85%	91%	90%		
> Functional characteristics	· · ·				
Operates in power-saving mode when the backup is cl	narged.				
On/Off function per port.					
Filters disturbances of the electrical network.					
Fanless.					
Reboot function (start and stop automatically) availab	le.				
Indicates the % of remaining autonomy.					
Disconnection of the backup via a pushbutton (reset).					
Smart backup					
SDC-PoE is available in 2 backup packs	3D		3G		
Latest generation Lithium LiFePO4 Technology (no risk	gy (no risk of thermal runaway).				
Lead-free, cadmium-free, 100% recyclable.					
Storage: 9 months without recharging.					
10 year service life.					
Advanced management settings, cell balancing, overla	ad and overvoltage protection.				
A front panel pushbutton (on the board for BOX2) disc mains voltage is present.	connects the backup via a static s	witch. The backup is autom	natically reconnected when		
Backup duration according to output power - 55 W (Ty	/pe 3)				
	DIN1		DIN2		
	based Base				
	Backup 3D		Backup 3G		
Operating power		pressed in hours and minut			
5 W 7 W	2h49 2h11		11h14		
10 W			6h34		
15 W	1h09 4h36				
20 W	0h53 3h32				
25 W	0h43 2h51				
30 W	0h36 2h23				
35 W	0h31 2h04				
40 W	0h27 1h48				
45 W	0h24		1h37		
50 W	0h22		1h27		
55 W	0h20		1h19		

SDC-POE DATASHEET

Protections						
Against overvoltages on p	primary (atmospheric or in	dustrial causes) by v	varistor a	and filter.		
Against surges in user out	tput (connection error) by	breaking with cyclic	cal restar	t if output voltage > U _n +10%.		
Against overcurrent by lin	miting the power supply to	P _n +10%.				
Against output short circu	Against output short circuits by disconnecting the mains by cyclical restart.					
Against overcurrent and short-circuits by disconnecting the PoE port to $I > I_n + 10\%$.						
MMI						
LED for status display and control (UPS DC status).						
Steady green	Flashing green	Slow flashing or	range	Fast flashing orange	Red	
Normal mode	ECO mode Stealth mode	Backup mode		Installation fault - Overcurrent, short circuit - Low voltage output (product overload). - Excessive power supply temperature - If no mains (outside speci- fied power supply range). End of backup imminent	UPS to be changed - If no output voltage - If power supply out of order (charger fault). Backup fault - Backup undervoltage. - Backup overvoltage	
LEDs to give the status of	the Ethernet port activity	(Link / Act)				
Steady green Flashing green				reen		
Connection established			 Connection established Activity on the Ethernet link 			
LED to give the status of t	the PoE / PoE + power supp	oly				
	Steady orange			Off		
PoE active			 PoE inactive PoE waiting for a connection 			
Communication						
status), to communicate a		operating current,		o check information remotely (p ning backup, power supply stat	product serial number, system us, internal temperature of the	
Auto MDI/MDI-X			yes			
MAC address table		8,000 address				
Transmission method		Store & Forward				
Transmission capacity		650 Mbps				
Frame size and latency (max)			1 518 octets / 126 μs			
Improved version of the micro program Upgrade via HTTPS web browser						
Protocols supported: IPv4	4, HTTPS, TCP, UDP, ICMP, A	ARP, DHCP, SNMP V1	1 & V3, E	ACnet IP.		
> Product references						
Interpretation of the proc	duct reference designation	s: SDC-POE <mark>[Backup</mark>) [Box] F	1		

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Edge switch with 4 PoE+ ports,, backed up by integrated Micro-UPS SNMP / BACnet IP protocols

PoE / PoE+ (IEEE 802.3af/at)



4-port PoE+ switch, 15 min to 5h emergency function integrated, with very long service life





Built-in functions

- \sim Secures up to 4 PoE / PoE+ devices
- \sim PoE 55 W budget
- \sim 15 min to 5h integrated backup
- \sim Integrated LiFePO4 backup, with very long service life
- \sim Configurable reboot function for each port
- \sim HTTPS / SNMP / BACnet IP open communication protocols.

Key product features

- \sim Protects PoE equipment against any electrical disturbance, internal or external
- \sim Ultra-compact & plug-and-play
- \sim Performs self-diagnostic and that of its environment
- \sim Saves wiring
- \sim 4 protected Ethernet ports 100 Mbps / 1 protected Ethernet port 1 Gbps.

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
SDC-PoE 4			
SDC-POE 3D BOX2 P4	1.0 kg	285 x 198 x 61	83930924
SDC-POE 3E BOX2 P4	1.3 kg	285 x 198 x 61	83931924

Boxes	Size W x H x D (mm)	Weight (kg)	Ma	terials	Protection	n rating	Installatio
BOX2	285 x 198 x 61	1.1 - 1.3	ļ	ABS	IP3)	Wall mounted Shelf placemer
Connections		1			1		
 1 power cable to be connecte 1 RJ45 port 1000 Mbps. 4 PoE/PoE+ ports 100 Mbps. 	d to the 110 / 230 V AC mains.						
Network cable: Ethernet cable	Cat 5 or more / shielded or unshie	elded / straight or t	twisted				
> Standard-based specificatior	15						
EN 61000-6-3 / EN 61000-6-4 / E	61000-6-2 / EN 61000-3-2 A class N 55032 class B / UN 38.3 / IEEE 802 J, IEEE 802.3x, IEEE 802.3az (Energy l		EE)		CE	Ê	RoHS 3 2015/965
> Environmental specifications	5						
Temperature							
Storage		-20 à +45°C					
Operating		-10 to +55°C at	t 100% loa	ad in norma	l and backup	mode	
Operating		-5 to +55°C at 2	100% load	l in battery	charge mode		
Humidity							
Storage	relative humidity 10 to 95%						
Operating		relative humid	ity 20 to 9	95%			
Altitude							
Above 2,000 m, the maximum	operating temperature decreases	by 5% every 1,000	m				
Service life							
10 years at 25°C product extern	nal environment, rated mains volta	age, 75% load					
> Electrical characteristics							
Network input							
Voltage AC network		99 to 264 V AC					
Voltage DC network		140 to 375 V DC					
Frequency		45 to 65 Hz					
Class		Class 1					
Current		Inrush current	limited by	/ NTC			
Neutral systems		TT, TN, IT					
Protection against		primary short of	circuit and	d differentia	I mode shock	waves.	
Primary current @ 99 V AC		1.5 A					
Primary current @ 264 V AC		0.38 A					
Operating output							
PoE technology		IEEE 802.3 af, I	EEE 802.3	at, PSE of t	хуре В		
Budget PoE max per RJ45 port		30 W					
Total PoE budget		55 W to 55 V					
Management of port priority		no					
Output (Smart Backup)		ŋ @ 20 % lo	ading	ŋ @ 75	% loading	ŋ @ 10	0 % loading
Output (Smart Backup)		85%		q	1%		90%

SDC-POE 4 DATASHEET

> Functional characteristics					
Operates in power-saving mode when the back	up is charged.				
On/Off function per port.					
Filters disturbances of the electrical network.	Filters disturbances of the electrical network.				
Without fan.					
Configurable reboot function (stops and restart	s automatically) or	each port.			
Indicates the % of the remaining autonomy.	,, -	F			
Disconnection of the backup via a pushbutton (reset).				
Smart backup					
SDC-PoE 4 is available in 2 backup packs		3D		3E	
Latest generation Lithium LiFePO4 Technology ((no risk of thermal				
Lead-free, cadmium-free, 100% recyclable.					
Storage: 9 months without recharging.					
10 year service life.					
· ·	overland and ever	voltage protection			
Advanced management settings, cell balancing,					
A push button on the board disconnects the ba The backup is automatically reconnected when					
Protections					
Against overvoltages on primary (atmospheric o	or industrial causes) by varistor and filter.			
Against overvoltage on output terminals (contre exceeds U _n +10%	ol failure or cabling	error) by disconnection and	l automati	c restart when output voltage	
Against overload by power limitation to P _n +10%	ó.				
Against short-circuits on output terminals by di	sconnection with c	yclical restart.			
Against overcurrent and short-circuits by discor	nnecting the PoE po	ort at I > I _n + 10%.			
Backup duration according to output power - 5	5 W (TYPE 3)				
				De aluna 25	
Operating power		Backup 3D Autonomy expressed	in hours a	Backup 3E	
5 W		2h31		5h01	
7 W		2h		4h	
10 W		1h32		3h04	
15 W 1h06 2h12					
20 W 0h51 1h42					
25 W 0h42 1h23					
30 W 0h35 1h10					
35 W 0h30 1h					
40 W 0h27 0h53					
45 W		0h24		0h47	
50 W		0h21		0h43	
55 W	55 W 0h20 0h39				

MMI					
LED for status display a	nd control (UPS DC status).				
Steady green	Flashing green	Slow flashing o	range	Fast flashing orange	Red
Mode normal	ECO mode Stealth mode	Backup mode		Installation fault - Overcurrent, short circuit - Low voltage output (product overload). - Excessive power supply temperature - No mains (outside speci- fied power supply range). End of backup imminent	 UPS to be changed If no output voltage If power supply out of order (charger fault). Backup fault Backup undervoltage. Backup overvoltage
LEDs to give the status	of the Ethernet port activity	r (Link / Act)			
	Steady green			Flashing g	reen
Connection established		 Connection established Activity on the Ethernet link 			
LED to give the status o	f the PoE / PoE + power sup	oply			
	Steady orange			Off	
PoE active			PoE inactivePoE waiting for a connection		
Communication					
mation remotely (produ	uct serial number, system st	atus), to communica	ate analo	network (or for local diagnosis g values (voltage and load cur via the on-board HTTPS webse	rent, % of backup remaining,
Auto MDI/MDI-X			yes		
MAC address table			8,000 entries		
Transmission method			Store & Forward		
Intern switch capacity			650 Mbps		
Frame size and latency (max)		1 518 octets / 126 μs			
Improved version of the	e micro program		Upgrad	le via HTTPS web browser	
Protocols supported: IP	v4, HTTPS, TCP, UDP, ICMP,	ARP, DHCP, SNMP V	1 & V3, E	BACnet IP.	
> Product references					
Interpretation of the pr	oduct reference designation	ns: SDC-POE [Backup	BOX2	24	
			*CI AT #	econies the right to modify the charact	eristics of its products without prior pot

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Managed 8 port HiPoE Switch + 2 optical fibers, full Gigabit layer 2 Secured by an integrated micro-UPS, secure protocols



PoE/PoE+/HiPoE (IEEE 802.3bt)

- SDC-PoE 8 powers cameras, LPUs and systems. It ensures the access control and video stream security 24/7.



Built-in functions

- ∼ Supplies power to up to 8 PoE/PoE+/HiPoE devices
- \sim Manages the data and video flow
- \sim Two independent optical fiber connections
- \sim Contains a micro-UPS
- \sim Eliminates micro-cuts and brown outs
- \sim Reboots automatically the monitored devices
- \sim One programmable dry contact output and input
- $\sim {\rm Web}$ server monitoring of the complete system and the connected devices

Key product features

- \sim Many security features to preserve all video and data flows
- \sim Ensures the operation of the systems in case of vandalism
- \sim Prevents interventions to reset cameras
- \sim Operates for 10 years without maintenance
- \sim Maintains applications operational 24/7
- \sim Saves space and implementation time

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
SDC-PoE 8			
SDC-POE 5F DIN4 8P2F	2.2	215 x 138 x 148	83952145

SNMP / BACnet IP communication

SDC-PoE 8 is a PoE/PoE+/HiPoE managed layer 2 switch, with a built-in micro-UPS function (LiFePO4 battery). With 10 full-Gigabit ports including 4 HiPoE, 4 PoE+ and 2 SFP for fiber links, the switch interconnects and supplies equipments, such as cameras, recorders, alarm panels, etc... It manages data or video flows and monitors the proper functioning of the devices. In the event of a power failure, it ensures service continuity and maintains operation of the equipments powered by PoE.

Boxes	Size W x H x D (mm)	Weight (kg)	Materials	Protection rating	Installation	
DIN 4	215 x 138 x 131 (without connectors)	2.2	Aluminium	IP20	DIN rail	
Connections						
Mains	Screw terminal with plug-in	connector with polariz	ing slot			
PoE ports	8 RJ45 ports	Ethernet cable Categ shielded, straight or t		·)/ Category 6a or more (H	iPoE)	
SFP ports	2 SFP ports	SFP module 1000 Mb	ps transceiver			
Digital Input/ Dry Contact	Screw terminal with plug-in	connector with polariz	ing slot			
> PoE						
PoE/PoE+/HiPoE Ports	4 Ports, End-span cabling (N IEEE 802.3af/at/bt - 15 W /		r port			
PoE/PoE+ Ports	4 Ports, End-span cabling (N IEEE 802.3af/at - 15 W / 30					
Power	PoE function configuration p	oer port				
PoE budget	180 W					
> Communication						
Communication speed		PoE	ports	10 / 100 / 1000) Mbps	
communication speed		SFP	SFP ports 100 / 1000 Mbps			
Application layer protoco	ols	НТТ	HTTPS, BACnet IP, SNMP (v1, v2c, v3), DHCP			
Network layer protocols		IPv4	IPv4, ICMP			
> Switch properties						
Priority Queues		8	8			
Max. Number of VLANs		409	4094			
VLAN ID Range		VID	VID 1 to 4094			
IGMP Groups		102	1024			
MAC Table Size			Up to 8K MAC addresses			
Jumbo Frame Size		9.6	(B)			
Performance						
Capacity of the forwardi (Mpps) (64-byte packets)	ng rate in Millions of Packet	ts per Second 14.8	8 Mpps			
Switching Capacity in Gi	gabits per Second (Gbps)	20 0	bps			

DATASHEET SDC-PoE 8

> Switching characteristics	
Layer 2 Switching	
Spanning Tree Protocol (STP)	Standard Spanning Tree (STP) IEEE 802.1D
	Rapid Spanning Tree (RSTP) IEEE 802.1w
Aggregation	Link Aggregation Control Protocol (LACP) IEEE 802.3ad; Up to 5 groups, up to 8 ports per group
VLAN	Supports up to 4K VLANs simultaneously (out of 4094 VLAN IDs); Port-based VLAN; 802.1Q tag-based VLAN
IGMP v1/v2 Snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters; it supports 1024 multicast groups (source-specific multicasting is also supported)
Security	
Secure Sockets Layer (SSL), HTTPS	SSL encrypts the http traffic, allowing advance secure access to the browser-based management GUI in the switch
Port Security	Locks MAC Addresses to ports, and limits the number of learned MAC addresses
IP Source Guard	Prevents datagram with spoofed addresses from being in the network
Storm control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast or unicast storm on a port
ACLs	Supports for up to 256 entries; Drop or rate limitation based on source and destination MAC, VLAN ID or IP address, protocol, port, differentiated services code point (DSCP) / IP precedence, TCP/ UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag
Quality of Service	
Hardware Priority Queue	Supports 8 hardware queues
Scheduling	Strict priority and weighted round-robin (WRR)
Scheduling	Queue assignment based on DSCP and class of service (802.1p/ CoS)
Classification	Port based; 802.1p VLAN priority based; IPv4 precedence/ type of service (ToS) / DSCP based
Rate Limiting	Ingress policer; egress shaping and rate control; per VLAN, per port and flow based
Management (Web/SSL, SNMP, BACnet)	
Web GUI interface	Built-in switch configuration utility for browser-based device configuration (HTTPS). Supports configuration, system dashboard, maintenance and monitoring.
Firmware upgrade	Web browser upgrade (HTTPS)
Port mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be mirrored to a single destination port. A single session is supported.
Other management	Single IP management; HTTPS; RADIUS; DHCP Client; SNTP; cable diagnostics
Green Ethernet	
Link detection	Compliant IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power on Gigabit Ethernet RJ45 port when detecting link down or Idle of client. Active mode is resumed without loss of any packets when the switch detects the link up.
Cable length detection	Adjusts the signal strength based on the cable length. Reduces the power consumption for shorter cables.
Eco Mode	Shifts automatically to power-saving mode.
Discovery	
Link Layer Discovery Protocol (LLDP)	Used by network devices for advertising their identities, capabilities and neighbors on a IEEE 802 local area network, principally wired Ethernet.
The configuration of the switch functions is done	via the embedded website.

> Signaling	
1 LED for the "PoE Load" level on the front panel	
1 LED for the product "Status" on the front panel	
8 LEDs indicate the PoE activity on the corresponding port (green)	
8 LEDs indicate the data transmission activity on the corresponding p	ort (vellow)
> Environmental specifications	
Temperature	
Storage	-20°C à +45°C
	at 100% load: -10°C +45°C
Operating	at 75% load: -10°C +50°C
Humidity	
Storage	relative humidity 10% 90%
Operating	relative humidity 20% 85%
Altitude	
Above 2,000 m, the temperature decreases by 5% every 1,000 m.	
Cooling	
The cooling is carried out transversally.	
Service life	
10 years at 25°C product external environment, rated mains voltage,	75% load
> Electrical characteristics	
Network Input	
AC network voltage	198 to 264 V AC
Frequency	45 to 65 Hz
Class	1
Inrush current	Limited by NTC
Neutral system	TT, TN, IT
Protection against	primary short-circuit and differential mode shock waves
Primary current @ 198 V	1.85 A
Primary current @ 264 V	1.70 A
Functional characteristics	
Operates in power-saving mode when the backup is charged.	
On/Off function per PoE port.	
Filters disturbances of the electrical network.	
Fan-cooling.	
Configurable reboot function (stop and restart automatically) on each	n PoE-port.
Indicates the % of the remaining autonomy.	
Protections	
Against surge and overvoltage on primary (Lightning or industrial orig	zins).
Against overload by power limitation to Pn+10%.	
Against overcurrent and short-circuits on the output by disconnecting	g the PoE port at I > In + 10%.
Smart backup	
SDC-PoE 8 is available with the backup pack	5F
Latest generation Lithium LiFePO4 Technology (no risk of thermal run	naway).
Lead-free, cadmium-free, 100% recyclable.	
Storage: 9 months without recharging.	
10 year service life.	
Advanced management settings, cell balancing, overload and overvo	Itage protection.

DATASHEET SDC-PoE 8

Backup duration according to output power			
	Backup F		
Operating power	Autonomy expressed in hours and minutes		
10 W	2h07		
20 W	1h29		
30 W	1h09		
40 W 50 W	0h55		
60 W	0h46 0h40		
70 W	0h35		
80 W	0h31		
90 W	0h28		
100 W	0h25		
110 W	0h23		
120 W	0h21		
130 W	0h20		
140 W	Oh18		
150 W	0h17		
160 W	0h16		
170 W	0h15		
180 W	0h14		
> Standards			
IEEE Standards			
IEEE 802.1D	Standard Spanning Tree / Multicast		
IEEE 802.1w	Rapid Spanning Tree (RSTP)		
IEEE 802.1Q	VLAN		
IEEE 802.1X	Radius		
IEEE 802.3ad	Link Aggregation Control Protocol (LACP)		
IEEE 802.3i	10BaseT		
IEEE 802.3u	100BaseT(X) and 100BaseFX		
IEEE 802.3ab	1000BaseT(X)		
IEEE 802.3z	1000BaseX		
IEEE 802.3x	Flow Control		
IEEE 802.3af	PoE		
IEEE 802.3at	PoE+		
IEEE 802.3bt	HiPoE (type 3 & 4)		
IEEE 802.3az	Energy Efficient Ethernet		
Electrical standards			
Safety	EN 62368-1 (2020) + A11 (2020)		
EMC - Immunity	EN 61000-6-1 (2007), EN 61000-6-2 (2019)		
	EN 61000-6-3 (2007), EN 61000-6-4 (2019)		
EMC - Emissions	EN 61000-3-2 (2019) (class A)		
	EN 55032 (2015) (class B)		
Security standards			
Transportation security	UN 38.3		
> Product references			
SDC-POE 5F DIN4 8P2F			
l			

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SDC-Poe 24 Layer 2 switch for access control and video surveillance PoE / PoE+ (IEEE 802.3af/at)



24 port full Gigabit managed PoE / PoE+ switch, secured by an integrated micro-UPS. Secure protocols.

SDC-PoE 24 powers systems, LPUs and cameras, ensures the access and video stream security 24/7.





Build-in functions

- \sim Supplies power to up to 22 PoE / PoE+ devices
- \sim Manages the data and video flows
- \sim Allows connections by optical fiber
- \sim Contains a micro-UPS
- \sim Eliminates line disturbances
- \sim Reboots automatically the monitored devices

Key product features

- \sim Many security features to preserve all data flow
- \sim Guarantees the operation of the systems in case of vandalism
- \sim Prevents interventions to reset cameras
- \sim Lithium backup; 10 years without maintenance
- \sim Maintains applications operational 24/7

Main software specifications

- Layer 2 management: VLAN, Spanning Tree, STP, RSTP, Loop Protection, Aggregation, Mirroring, QoS, LLDP, 802.1x, IGMP Snooping, DHCP Snooping, Port Security, ARP, ACL, and more...
- \sim Device Activity Monitoring
- \sim Green Ethernet
- \sim Secure management with HTTPS and SNMP V3
- ∼Jumbo Frames 9.6 kilobytes

Main hardware specifications

- \sim 2 SFP ports 100/1000 Mbps
- \sim 2 combo ports (Ethernet/SFP)
- \sim PoE budget 210 W
- \sim Lithium LFP battery, 72 Wh or 144 Wh
- \sim 2U metal rack: W446 x H85 x D380 [mm]
- \sim IP30
- \sim Weight, depending on the model: 7 kg or 7.7 kg

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
SDC-PoE 24			
SDC-POE 6F RK2 P24	7.0 kg	446 x 85 x 380	83962307
SDC-POE 6J RK2 P24	7.7 kg	446 x 85 x 380	83965307

SDC-POE 24 DATASHEET

SNMP / BACnet IP communication

SDC-PoE 24 is a PoE / PoE + managed layer 2+ switch, with built-in micro-UPS function (Lithium LFP battery). With 24 full-Gigabit ports including 4 SFP ports for fiber links, the switch interconnects and supplies equipments, such as cameras, recorders, alarm panels, etc. It manages data or video flows and monitors the proper functioning of the devices. In the event of a power failure, it ensures service continuity, and maintains operation of the equipments powered by PoE / PoE +.

Boxes	Size W x H x D (mm)	Weight (kg)	Materials	Protection rating	Installation
Rack 2U					
	446 x 85 x 380 (without connectors)	7 - 7.7	Painted metal	IP30	Rack / Shelf placement
Connections	1	1	1		
Mains	IEC connector				
PoE ports	20 RJ45 ports	Ethernet cable	Cat 5 or more / sl	nielded / straight or twis	ted cables
SFP ports	2 SFP ports	SFP module 10	00 Mbps transceiv	/er	
Combo ports	2 Combo ports PoE/SFP	I			
> Switch properties					
Priority Queues		8			
Max. Number of VLANs		4094			
VLAN ID Range		VID 1 to 4094			
IGMP Groups		1024			
MAC Table Size		Up to 8K MAC addr	esses		
Jumbo Frame Size		9.6 KB			
Performance					
Capacity of the forwarding rate in Millions of Packets per Second (Mpps) (64-byte packets)		38.69 Mpps			
Switching Capacity in Gigabits per Second (Gbps)		52 Gbps			
> Switching characteristics					
Layer 2 Switching					
(CTD)		Standard Spanning	Tree 802.1d		
Spanning Tree Protocol (STP)	·	Rapid Spanning Tre	e (RSTP) 802.1w		
Aggregation		Link Aggregation Control Protocol (LACP) IEEE 802.3ad; Up to 12 groups ; Up to 16 ports per group			
VLAN		Supports up to 4K V 802.1Q tag-based V		isly (out of 4094 VLAN ID	s) ; Port-based VLAN;
IGMP v1/v2 Snooping		IGMP limits bandwidth-intensive multicast traffic to only the requesters; it supports 1024 multicast groups (source-specific multicasting is also supported)			
Security					
Secure Sockets Layer (SSL), HTT	PS	SSL encrypts the http traffic, allowing advance secure access to the browser-based management GUI in the switch			
Port Security		Locks MAC Addresses to ports, and limits the number of learned MAC addresses			
IP Source Guard (IPSG)		Prevents datagram with spoofed addresses from being in the network			network
Storm Control		Prevents traffic on a LAN from being disrupted by a broadcast, multicast or unicast stor on a port			
ACLs		Supports for up to 256 entries; Drop or rate limitation based on source and destination MAC, VLAN ID or IP address, protocol, port, differentiated services code point (DSCP) / IP precedence, TCP/ UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag			

> Switching characteristics				
Quality of Service				
Hardware Priority Queue	Supports 8 hardware queues			
· · · · · · · · · · · · · · · · · · ·	Strict priority and weighted ro	ound-robin (WRR)		
Scheduling	Queue assignment based on	DSCP and class of service (80)2.1p/ CoS)	
Classification		Port based; 802.1p VLAN priority based; IPv4 precedence/ type of service (ToS) / DSCP base		
Rate Limiting	Ingress policer; egress shapin	g and rate control; per VLAN	, per port and flow based	
Management (Web/SSL, SNMP, BACnet)				
Web GUI interface	Built-in switch configuration u Supports configuration, system			
Firmware upgrade	Web browser upgrade (HTTPS	5)		
Port Mirroring	Traffic on a port can be mirro or RMON probe. Up to N-1 (N destination port. A single sess	l is Switch's Ports) ports can		
Other management	Single IP management; HTTPS	S; RADIUS; DHCP Client; SNT	P; cable diagnostics	
Green Ethernet				
Link Detection	power on Gigabit Ethernet RJ	Compliant IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power on Gigabit Ethernet RJ-45 port when detecting link down or Idle of client. Active mode is resumed without loss of any packets when the switch detects the link up.		
Cable length D etection	Adjusts the signal strength ba for shorter cables.	Adjusts the signal strength based on the cable length. Reduces the power consumption for shorter cables.		
Eco Mode	Shifts automatically to power	-saving mode.		
Discovery				
Link Layer Discovery Protocol (LLDP)		Used by network devices for advertising their identities, capabilities and neighbors on a IEEE 802 local area network, principally wired Ethernet.		
The configuration of the switch functions is do	one via the embedded website.			
> PoE				
PoE Ports	22 ports support PoE Power F	Pin Type: End-span (Mode A)		
PoE standard	IEEE 802.3af/at			
	15 W / 30 W per port			
Power	Per port PoE function configu	ration		
PoE budget	210 W			
Output (Smart Backup)	η @ 25% loading	η @ 75% loading	η @ 100% loading	
	90.60%	94.50%	94.60%	
> Minimum requirements				
Web browser	Mozilla Firefox version 2.5 or			
Network cable	Ethernet cable Cat 5e or more	e / shielded or unshielded / s	straight or twisted	
Rack mounting	Rail to place the product in th	ie bay		
> Communication				
Communication speed	PoE ports	10 / 100 / 1	•	
	SFP ports	100 / 1000	•	
	Combo ports		00 / 1000 Mbps (PoE) 00 Mbps (SFP)	
Application layer protocols	HTTPS, BACnet IP, SNMP, DHC	P		
Network layer protocols	IPv4, ICMP			

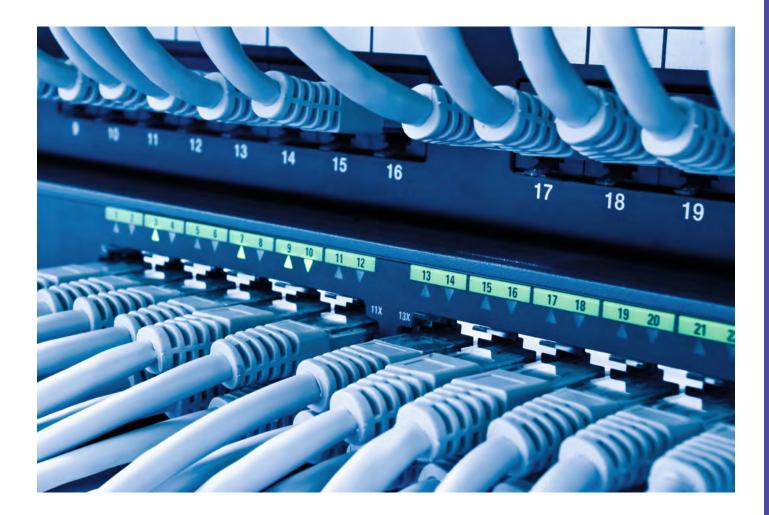
SDC-POE 24 DATASHEET

> Signaling			
1 LED for the "PoE Load" level on the front panel			
1 LED for the product "Status" on the front panel			
22 LEDs indicate the PoE activity of each port on the front pan			
22 LEDs indicate the data transmission activity on the correspondence			
22 LEDs indicate the data transmission activity on the correspo			
> Environmental specifications			
Temperature			
Storage	-20°C à +45°C		
	at 100% load: -10°C +45°C		
Operating	at 75% load: -10°C +50°C		
Humidity			
Storage	relative humidity 10% to 90%		
Operating	relative humidity 20% to 85%		
Altidude			
Above 2,000 m, the temperature decreases by 5% every 1,000) m.		
Cooling			
The cooling in carried out transversally.			
Service life			
10 years at 25°C product external environment, rated mains v	oltage, 75% load		
> Electrical characteristics			
Network Input			
AC network voltage	198 to 264 V AC		
Frequency	45 to 65 Hz		
Class	Class 1		
Inrush current	Limited by NTC		
Neutral system	TT, TN, IT		
Protection against	primary short-circuit and differential mode shock waves		
Primary current @ 198 V	2 A		
Primary current @ 264 V	2 A		
Functional characteristics			
Operates in power-saving mode when the backup is charged.			
On/Off function per PoE port.			
Filters disturbances of the electrical network.			
Fan-cooling.			
Configurable reboot function (stop and restart automatically)	on each PoE-port.		
Indicates the % of the remaining autonomy.			
Protections			
Against surge and overvoltage on primary (Lightning or indust	rial origins).		
Against overload by power limitation to P_n +10%.			
Against overcurrent and short-circuits on the output by discon	necting the PoE port at I > I ₂ + 10%.		
Smart Backup			
SDC-PoE 24 is available in 2 backup packs	6F 6J		
Latest generation Lithium LiFePO4 Technology (no risk of them			
Latest generation Lithium LiFePO4 Technology (no risk of therr Lead-free, cadmium-free, 100% recyclable.			
Latest generation Lithium LiFePO4 Technology (no risk of them			

SDC-POE 24 DATASHEET

	Backup 6F	Backup 6J
Operating power	Autonomy express	sed in hours and minutes
10 W	1h35	3h10
20 W	1h12	2h24
30 W	0h58	1h56
40 W	0h48	1h37
50 W	0h41	1h23
60 W	0h36	1h13
70 W	0h32	1h04
80 W	0h29	0h58
90 W	0h26	0h52
100 W	0h24	0h48
110 W	0h22	0h44
120 W	0h20	0h41
130 W	0h19	0h38
140 W	0h17	0h35
150 W	0h16	0h33
160 W	0h15	0h31
170 W	0h14	0h29
180 W	0h14	0h28
190 W	0h13 0h12	0h27
200 W	0h12	0h25 0h24
210 W	0112	01124
Standards EEE standards		
		-
EEE 802.1D	Standard Spanning	
EEE 802.1W	Rapid Spanning Tree	e (RSTP)
EEE 802.1Q	VLAN	
EEE 802.1X	Radius	
EEE 802.3AD	Link Aggregation Co	ntrol Protocol (LACP)
EEE 802.3I	10BaseT	
EEE 802.3u	100BaseT(X) and 10	0BaseFX
EEE 802.3ab	1000BaseT(X)	
EEE 802.3z	1000BaseX	
EEE 802.3x	Flow Control	
EEE 802.3af		
	РоЕ	
EEE 802.3at	PoE+	
EEE 802.3az	Energy Efficient Etl	hernet
lectrical standards		
afety	EN 62368-1 (2020) -	+ A11 (2020)
MC - Immunity	EN 61000-6-1 (2007	'), EN 61000-6-2 (2019)
	EN 61000-6-3 (2007	'), EN 61000-6-4 (2019)
MC - Emissions	EN 61000-3-2 (2019) (class A)
	EN 55032 (2015) (cl	
ecurity		
ecurity ransportation security	UN 38.3	

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Defining your lead battery's capacity

For systems requiring backup, you must first determine:	Define your adjustment factor K ac	cording to the required	
\sim The rated operating voltage, U _n (in Volts)	battery autonomy:		
\sim The system's continuous drain current, I _n	Required battery autonomy in hours (t)	Factor (K)	
(in Amperes), or the continuous power input , P _n (in Watts) ~ The battery autonomy required by the customer,	20	1.10	
	12	1.15	
	8	1.25	
	4	1.56	
t (in hours)	2	1.66	
∼ The adjustment factor K according to the cutoff	1	2	
1.85V/cell and the battery autonomy	0.5 (30 min)	2.5	
	0.33 (20 min)	3	
	0.16 (10 min)	4	

Note that, if you have the continuous power input P_n (in Watts), below is the calculation to obtain the continuous drain current I_n (in Amperes):

I_n [Ampere] = P_n [Watt] / U_n [Volt]

Perform the following calculation to define C_{Ah} , i.e. the required battery capacity in Ampere-hours:

$$C_{Ah} = I_n \mathbf{x} \mathbf{t} \mathbf{x} \mathbf{K}$$

(important: this formula is applicable to systems with a continuous output and a cutoff of 1.85V/cell)

Example : $U_n = 24 V$ $I_n = 4 A$

Required battery autonomy: 4 h

$$C_{Ah} = I_n x t x K$$
$$C_{Ah} = 4 x 4 x 1.56 = 24.96$$

I.e. a maximum capacity of: 24 Ah.

To perform this calculation, you must know:

 \sim The **rated operating voltage**, U_n (in Volts)

 \sim The system's **continuous drain current, I**_n (in Amperes), or the **continuous power input, P**_n (in Watts)

 \sim The associated **battery capacity** to maintain, **C**_{Ah} (see previous calculations)

Perform the following calculation to determine the current of the charger :

Charger rating = $I_n + (C_{Ah}/10)$

Example : $I_n = 4 A$ $C_{Ah} = 24 Ah$

Charger rating = 4 + (24/10) = 6.4

I.e. a charger rating greater than or equal to 6.4 A.

Batteries

PBE FRONT TERMINAL	12V	12V PBE	
MODEL	WEIGHT (kg)	SIZE W x H x D	CODE
BAT PBE 12V 2Ah	1,0 kg	178 x 64 x 34	9729120021
BAT PBE 12V 7Ah	2,7 kg	151 x 97,5 x 65	9729120060
BAT PBE 12V 12Ah	4,1 kg	151 X 97,5 x 100	9729120120
BAT PBE 12V 17Ah	6,4 kg	181 x 76 x 167	9729120150
BAT PBE 12V 24Ah	9,7 kg	166 x 175 x 125	9729120240
BAT PBE 12V 38Ah	14,5 kg	197 x 170 x 165	9729120380
BAT PBE 12V 65Ah	24,0 kg	350 x 174 x 166	9729120650
BAT PBE 12V 95Ah	33,2 kg	302 x 227 x 175	9729120850
BAT PBE 12V 130Ah M8	38,0 kg	410 x 225 x 177	9729121100

* The batterie capacities are indications. They may vary according to the supplier.



Battery capacity according to cabinet

Enclosure	Dimensions W x H x D (mm)	Mounting	12 V	24 V	48 V	56 V
C7	243 x 195 x 96	Wall-mounted & DIN rail	7 Ah	1.2 Ah	2.1 Ah	-
C24	322 x 248 x 126	Wall-mounted	7 Ah 12 Ah 24 Ah (2 x 12 Ah)	7 Ah 12 Ah	2.1 Ah	-
C34	367 x 352 x 108	Wall-mounted	7 Ah 17 Ah	7 Ah 17 Ah	-	-
C38	289 x 350 x 189	Wall-mounted & floor-mounted	17 Ah 24 Ah 38 Ah	17 Ah 24 Ah	7 Ah 12 Ah	-
C48	425 x 345 x 120	Wall-mounted	24 Ah (2 x 12 Ah) 36 Ah (3 x 12 Ah) 48 Ah (4 x 12 Ah)	7 Ah 12 Ah 24 Ah (4 x 12 Ah)	7 Ah 12 Ah	7 Ah 12 Ah
C85	408 x 408 x 224	Wall-mounted & floor-mounted	48 Ah (2 x 24 Ah) 65 Ah 96 Ah (4 x 24 Ah)	24 Ah 38 Ah 48 Ah (4 x 24 Ah)	12 Ah 17 Ah 24 Ah	-
C180	505 x 610 x 430	Floor-mounted	120 Ah 130 Ah 140 Ah	65 Ah 95 Ah 120 Ah 130 Ah 170 Ah	38 Ah 65 Ah 95 Ah	-

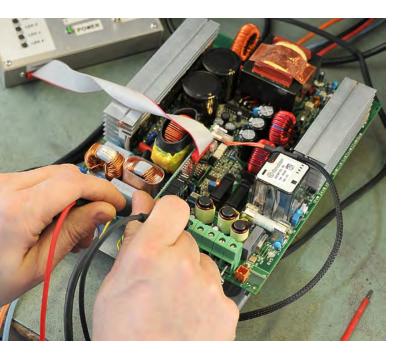


After-sales solutions

1. Your products are under warranty

For the simplest and quickest solution for the maintenance of your products under warranty:

- Contact our After Sales Department using the form on www. slat.com in your personal MySLAT space, please be sure to fill out all the required fields.
- Your Account Manager will process your request and send you the RMA form by email.
- On receipt of the RMA form, please send back two copies along with your product(s), one should be placed inside the package and the other on the outside of the package for warehouse identification. This will ensure your product can be traced.
- The repaired or replacement product(s) will be returned within 15 working days.



Spare parts

after.sales@slat.fr

HOTLINE + 33 478 66 63 70

Your online technical support

2. Your products are no longer under warranty

We offer two product maintenance solutions:

QUICK AND EASY: replace the equipment yourselves

- You do not need to send the equipment back.
- Order your maintenance board at the standard rate and receive delivery within one week. Contact our Customer Services Department for advice by filling out the contact form on www.slat.com in your personal MySLAT space.
- Your new boards come with a one-year warranty.

Have our experts repair your products

- If you prefer this option, please use the following procedure to obtain an RMA number:
- Contact our Customer Service Department using the form on www.slat.com in your personal MySLAT space, please be sure to fill out all the required fields.
- Your Account Manager will send you your RMA form along with the quote for the appropriate product range.
- On receipt of the RMA form, please send back two copies along with your product(s), one should be placed inside the package and the other on the outside of the package for warehouse identification. This will ensure your product can be traced. The repair work will only be carried out after the signed quote is received along with a repair order. If you do not wish to accept the quote, please return it to: service.client@slat.fr, marked as "refused" and specify if we should destroy the equipment or return it as is (in this case a €150 handling fee will be charged).
- The repaired or replacement product(s) will be returned within 15 working days. Your product will be covered by a new 3-month warranty..

Conditions: The Return Merchandise Authorisation is delivered by SLAT.

An RMA number is allocated to each product to be returned. Each RMA number is valid for a 30-day period.

No returns can be accepted without prior obtention of an RMA number.

Spare paris			
MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
CL 12V 2A CARTE	0,1 kg	99 x 68 x 35	1020210000
CL 12V 5A CARTE	0,2 kg	99 x 85 x 35	1020510000
CL 24V 2,5A CARTE	0,2 kg	99 x 85 x 35	1040210000
CL 24V 4A CARTE	0,5 kg	158 x 112 x 47	1040410000
CL 24V 6A CARTE	0,5 kg	158 x 112 x 47	1040610000
CL 48V 2A CARTE	0,5 kg	158 x 112 x 47	1080210000
CL 48V 3A CARTE	0,5 kg	158 x 112 x 47	1080310000
EV 12V 6A CARTE	0,5 kg	98 x 170 x 54	1520610000
EV 12V 8A CARTE	1,5 kg	158 x 112 x 47	1520810000
EV 12V 12A CARTE	2,5 kg	158 x 112 x 47	1521210000
EV 12V 16A CARTE	0,5 kg	220 x 162 x 48	1521610000
EV 12V 24A CARTE	1,3 kg	220 x 162 x 48	1522410000
EV 12V 32A CARTE	2,3 kg	197 x 252 x 61	1523210000

Spare parts (continued)			
MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
EV 24V 3A CARTE	0,5 kg	98 x 170 x 54	1540310000
EV 24V 4A CARTE	0,5 kg	158 x 112 x 47	1540410000
EV 24V 6A CARTE	0,5 kg	158 x 112 x 47	1540610000
EV 24V 8A CARTE	0,5 kg	220 x 162 x 48	1540810000
EV 24V 12A CARTE	1,3 kg	220 x 162 x 48	1541210000
EV 24V 16A CARTE	2,3 kg	197 x 252 x 61	1541610000
EV 24V 24A CARTE	2,3 kg	197 x 252 x 61	1542410000
EV 48V 2A CARTE	0,5 kg	158 x 112 x 47	1580210000
EV 48V 3A CARTE	0,5 kg	158 x 112 x 47	1580310000
EV 48V 4A CARTE	0,5 kg	220 x 162 x 48	1580410000
EV 48V 6A CARTE	1,4 kg	220 x 162 x 48	1580610000
EV 48V 8A CARTE	1,4 kg	197 x 252 x 61	1580810000
EV 48V 12A CARTE	2,3 kg	197 x 252 x 61	1581210000
AES 24V 4A CARTE	0,5 kg	158 x 112 x 47	2040410000
AES 24V 6A CARTE	0,5 kg	158 x 112 x 47	2040610000
AES 24V 8A CARTE	0,5 kg	220 x 162 x 48	2040810000
AES 24V 12A CARTE	0,5 kg	158 x 112 x 47	2041210000
AES 24V 16A CARTE	2,3 kg	197 X 252 X 61	2041610000
AES 24V 24A CARTE	2,3 kg	197 X 252 X 61	2042410000
AES 48V 2A CARTE	0,5 kg	158 x 112 x 47	2080210000
AES 48V 3A CARTE	0,5 kg	158 x 112 x 47	2080310000
AES 48V 4A CARTE	0,5 kg	220 x 162 x 48	2080410000
AES 48V 6A CARTE	1,4 kg	220 x 162 x 48	2080610000
AES 48V 8A CARTE	1,4 kg	162 X 220 X 65	2080810000
AES 48V 12A CARTE	2,3 kg	197 X 252 X 61	2081210000
ACCES 12V 6A CARTE	1,0 kg	98 x 170 x 54	2520610000
ACCES 12V 8A CARTE	1,0 kg	158 x 112 x 47	2520810000
ACCES 12V 5A CARTE		158 x 112 x 47	2520810000
ACCES 24V 4A CARTE	1,0 kg		
	1,0 kg	158 x 112 x 47	2540410000
ACCES 24V 6A CARTE	1,0 kg	158 x 112 x 47	2540610000
SANTE 24V 4A CARTE	1,0 kg	158 x 112 x 47	3040410000
SANTE 24V 8A CARTE	1,0 kg	220 x 162 x 48	3040810000
SANTE 24V 12A CARTE	1,3 kg	220 x 162 x 48	3041210000
SANTE 24V 16A CARTE	1,4 kg	220 x 162 x 48	3041610000
SANTE 24V 24A CARTE	2,3 kg	220 x 162 x 48	3042410000
AXS3 12V 4A CARTE	0,5 kg	130 x 104 x 41	2620410000
AXS3 12V 6A CARTE	0,5 kg	130 x 104 x 41	2620610000
AXS3 24V 2A CARTE	0,5 kg	130 x 104 x 41	2640210000
AXS3 24V 3A CARTE	0,5 kg	130 x 104 x 41	2640310000
AXS2 12V 2A CARTE	0,1 kg	99 x 68 x 35	2720205000
AXS2 12V 5A CARTE	0,2 kg	99 x 85 x 35	2720505000
AXS2 12V 10A CARTE	1,0 kg	158 x 112 x 47	2721010000
AXS2 24V 1A CARTE	0,1 kg	99 x 68 x 35	2740105000
AXS2 24V 2,5A CARTE	0,2 kg	99 x 85 x 35	2740205000
AXS2 24V 5A CARTE	1,0 kg	158 x 112 x 47	2740510000
OPTION KIT 3 DEPARTS FUSIBLES	-	-	9900080000
OPTION CARTE 5 DEPARTS FUSIBLES	-	-	9059050004
PM CARTE EMBASE EP	-	-	4891000000
PM Carte VISU NG SAV	-	-	800000000

Repair Package

SERVICE	TERM	RATING	CODE
Forfait de réparation A	Repair package A	12V 2A / 12V 5A / 24V 1A / 24V 2,5A	9005013
Forfait de réparation B	Repair package B	12V 6A / 12V 8A / 12V 12A / 24V 3A / 24V 4A / 24V 6A / 48V 1,5A / 48V 2A / 48V 3A	9005012
Forfait de réparation C	Repair package C	12V 16A / 12V 24A / 24V 8A / 24V 12A / 48V 4A / 48V 6A	9005011
Forfait de réparation D	Repair package D	12V 32A / 12V 48A / 24V 16A / 24V 24A / 48V 8A / 48V 12A	9005010
Forfait de réparation E	Repair package E	48V 16A / 48V 25A / 48V 40A	9005009

The packages are exclusive to the caliber of the products shown in the price list. The products which have more than 10 years and product which undervent physical damage (liquid, lightning, etc.) are consistently reported irreparable.



MASTERED ENERGY Reliable, innovative power supply solutions, in phase with their time and your everyday life.

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