Safe DC

SLAT
for safer buildings

SDC-PoE
Micro-UPS PoE Protocols SNMP / BACnet IP

PoE / PoE+ (IEEE 802.3 af/at)
–
DC Micro-UPS, with integrated backup function, with a very long service life.

BOX2
dim (mm) → W285 X H198 X D61

DIN1
dim (mm) → W100 X H124 X D82

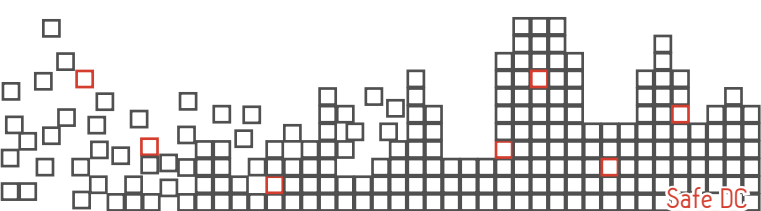**DIN2**
dim (mm) → W100 X H124 X D122

Product images non-contractual

BUILT-IN FUNCTIONS

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

KEY PRODUCT FEATURES.

→ Ultra-compact & plug-and-play.
→ Performs self-diagnostic and that of its environment
→ 1 emergency PoE output
→ Operates with IP power supply: Max. power on 60 W terminal

SDC-PoE 55 W

SNMP / BACnet IP communication

MECHANICAL CHARACTERISTICS

BOXES		Size W x H x D (mm)	Weight (kg)	Materials	Protection rating	Installation
	DIN1	100 x 124 x 82	0.68	Aluminum	20	DIN rail
	DIN2	100 x 124 x 122	0.96 - 1.36	Aluminum	20	DIN rail
	BOX2	285 x 198 x 61	1 - 1.6	ABS	30	Wall-mounted / floor-mounted

CONNECTIONS

DIN1	DIN2	BOX2
- 2 screw terminals with plug-in connectors with polarizing slot. (Power supply 110 / 230 V AC, output 55 V DC). - 1 RJ45 100 Mbps port. - 1 PoE / PoE+ 100 Mbps port.		- Cable feedthrough via 3 cable glands. - 2 screw terminals (on the board). - 1 RJ45 port 100 Mbps (on the board). - 1 PoE / PoE+ 100 Mbps port (on the board).

Network cable: UTP category 5 or better for 10BASE-T/100Base-TX

STANDARDS-BASED SPECIFICATIONS

EN 60950-1 SELV class / EN 61000-6-1 / EN 61000-6-2 / EN 61000-3-2 A class
EN 61000-6-3 / EN 61000-6-4 / EN 55022 + A1 B class / UN 38.3 / PoE 802.3 af/at
Ethernet IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-T, Flow Control IEEE802.3x, IEEE802.3az (Energy Efficient Ethernet EEE)

CE   RoHS 2011/65/UE

ENVIRONMENTAL SPECIFICATIONS

TEMPERATURE

Storage	-25 to +60°C
Operating	-5 to +55°C in cabinet at 100% load
	-5 to +55°C in cabinet at 75% load

HUMIDITY

Storage	relative humidity 10 to 95%
Operating	relative humidity 20 to 95%

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

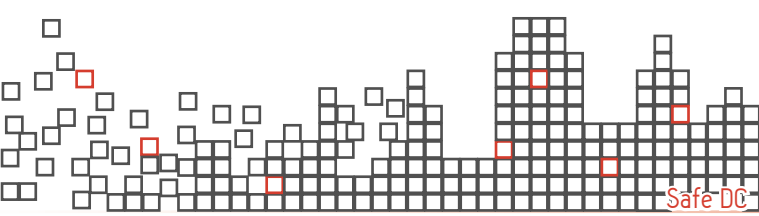|	
Voltage network AC	98 to 265 V AC
Voltage network DC	140 to 375 V DC
Frequency	45 to 65 Hz
Class	Class 1
Current	Inrush current limited by NTC
Neutral systems	TT, TN, IT
Protection against	primary short circuit and differential mode shock waves.
Primary current @ 98 V AC	1.5 A
Primary current @ 265 V AC	0.38 A

OPERATING OUTPUT

PoE technology	IEEE 802.3 af, IEEE 802.3 at
Budget PoE on RJ45 port	30 W
Maximum power on terminal block	55 W / 1.25 A

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 charged.
On/Off function per port.
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 increase / increase of the backup time / redundancy.
Disconnection of the backup via a pushbutton (reset).

SMART BACKUP

SDC-PoE is available in 3 backup packs	3D	3E	3G
Latest generation Lithium-ion LiFePO4 HER Technology (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, overload and overvoltage protection.			
A front panel pushbutton (on the board for BOX2) disconnects the backup via a static switch. The backup is automatically reconnected when mains voltage is present			

BACKUP DURATION ACCORDING TO OUTPUT POWER - 55 W (TYPE 3)

	DIN1	DIN2 / BOX2	
	Backup D	Backup E	Backup G
Operating power	Autonomy expressed in hours and minutes		
5 W	2h49	5h37	11h14
7 W	2h11	4h43	8h46
10 W	1h39	3h17	6h34
15 W	1h09	2h18	4h36
20 W	0h53	1h46	3h32
25 W	0h43	1h26	2h51
30 W	0h36	1h12	2h23
35 W	0h31	1h02	2h04
40 W	0h27	0h54	1h48
45 W	0h24	0h48	1h37
50 W	0h22	0h44	1h27
55 W	0h20	0h40	1h19

PROTECTIONS

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 I_n +10%.
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 orange	Fast flashing orange	Red
Normal mode	ECO mode Remote controlled backup mode	Backup mode	**Installation fault** - Overcurrent, short circuit - Low voltage output (product overload). - Excessive power supply temperature - If 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 (Link / Act)

Steady green	Flashing green
Connection established	- Connection established - Activity on the Ethernet link

LED to give the status of the PoE / PoE + power supply

Steady orange	Off
PoE active	- PoE inactive - PoE waiting for a connection

COMMUNICATION

2 ports 100 Mbps used to connect the Micro UPS DC to an Ethernet network to check information remotely (product serial number, system status), to communicate analog values (voltage and operating current, % remaining backup, power supply status, internal temperature of the UPS DC) and to configure its settings via on-board HTTPS web site.

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, HTTPS, TCP, UDP, ICMP, ARP, DHCP, SNMP V1 & V3, BACnet IP.

PRODUCT REFERENCES

Interpretation of the product reference designations : **SDC-POE 3[Backup] [box]P1**

Available at www.slat.com and on SLAT's Catalog.

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

4/4   Find out more about the SDC-PoE series of Safe DC by contacting SLAT: +33 478 66 63 63 or comm@slat.fr
Download all documentation on www.slat.com

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SDC-PoE Commercial Brochure - July 2017 - EN