










> Mechanical characteristics						
Boxes		Size W x H x D (mm)	Weight (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 connectors with polarizing slot.			Two outputs on screw terminals.		- Cable feedthrough via 3 cable glands or cable grommet. - Screw terminals.	
Connections: mains, 1 output, RS485 communication						
Capacity of terminal blocks / Cable size: 0.2 to 2.5 mm ²						
> Standard-based specifications						
EN 62368-1 / EN 61000-6-1 / EN 61000-6-2 / EN 61000-3-2 A class				   		
EN 61000-6-3 / EN 61000-6-4 / EN 55032 class B / UN 38.3						
> Environmental specifications						
Temperature						
Storage			-25 to +60°C			
Operating	Lithium Battery		-10 to +55°C at 100% load in normal and backup mode			
	Supercaps		-5 to +55°C at 100% load in battery charge mode			
Supercaps			-40 to +55°C			
Humidity						
Storage			relative humidity 10 to 95%			
Operating			relative humidity 20 to 95%			
Altitude						
Above 2,000 m, the maximum 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			99 to 264 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 @ 99 V AC			0.8 A [30 W] ; 1.5 A [55 W]			
Primary current @ 264 V AC			0.8 A [30 W] ; 0.38 A [55 W]			





> Operating output			
Rated voltage (U _n)	12 V DC	24 V DC	48 V DC
Output current (I _n) 30 W	2.5 A	1.25 A	-
Output current (I _n) 55 W	4.6 A	2.3 A	1.15 A
Maximum output power	30 W / 55 W		
Precision on voltage	1%		
Adjustment by potentiometer [55 W]	-8% to +13%		
Current limitation – short-circuit current	P _{max} to P _{max} +10% with output voltage > 6 V		
Peak current	2 I _n during 0.004 second		
HF ripple peak-peak (20 MHz-50 Ω)	< 4% of U _n		
Effective LF ripple	< 0.5% of U _n		
Static and dynamic regulation characteristics	< 5% of U _n for cumulative changes in sector and load (from 10% to 90%)		
Output (Smart Backup)	η @ 20% loading	η @ 75% loading	η @ 100% loading
	90%	93%	92%

> Functional characteristics					
Operates in power-saving mode when the backup is charged.					
Remote controlled stealth mode.					
Filters disturbances of the electrical network.					
Indicates the % of remaining autonomy.					
(not for 48 V) Parallel configuration without accessories for: power increase / increase of the backup / redundancy.					
Push-button disconnect of the backup (reset).					
Smart backup					
Backup type	Type 30 W	-	2D	-	-
	Type 55 W	3B	3D	3E	3G
Latest generation Lithium LiFePO4 technology: 2D, 3D, 3E, 3G - for back-up time, see table below.					
Back-up 3B - SuperCap technology with a back-up time of 3 seconds at 100% load - 500 000 cycles.					
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) disconnects the backup via a static switch. The battery is automatically reconnected when mains voltage is present.					

Backup duration according to output power - 30 W (Type 2)

Operating power	 DMR BOX2 12 V / 24 V 12 V Backup 2D	
	Autonomy expressed in hours and minutes	
5 W	3h23	
7 W	2h32	
10 W	1h48	
15 W	1h13	
20 W	0h55	
25 W	0h44	
30 W	0h36	

Backup duration according to output power - 55 W (Type 3)

	 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
	Backup 3B	Backup 3D	Backup 3E	Backup 3G
Operating power	Autonomy expressed in hours and minutes			
5 W	Minimum 3 seconds	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		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

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 $P_n + 10\%$.

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 specified 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

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