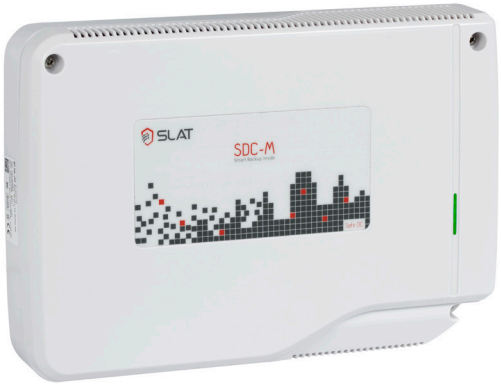
SLAT
for safer buildings

SDC-M IP

DC Micro-UPS SNMP / BACnet IP Protocols

12 V DC – 15 V DC – 24 V DC
-
Micro-UPS with Smart Backup Inside and 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

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

KEY PRODUCT FEATURES

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

SDC-M IP 12 V DC - 24 V DC / 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**	Aluminium	20	DIN rail
 DIN2	**100 x 124 x 122**	**0.96 - 1.36**	Aluminium	20	DIN rail
 BOX2	**285 x 198 x 61**	**1 - 1.5**	ABS	30	Wall-mounted

CONNECTIONS		
DIN1	**DIN2**	**BOX2**
- 2 Screw terminals with plug-in connectors with polarizing slot. (Input 110 / 230 V AC, output 12-24 V DC) - 2 RJ45 ports 100 Mbps.		- Cable feedthrough via 3 cable glands. - 2 Screw terminals (on the PC board). - 2 RJ45 ports 100 Mbps(on the PC board).
Network cables: twisted pairs, cat 5 or higher, 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 Ethernet IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-T, IEEE802.3x, IEEE802.3az (Energy Efficient Ethernet EEE)

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 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	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

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

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 HTTP interface	-8% to +13%		
Power limitation	P_{max} to P_{max} +10% with output voltage > 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 cumulative changes in sector and load (from 10% to 90%)		
Output (Smart Backup)	**η @ 20% loading**	**η @ 75% loading**	**η @ 100% loading**
	85%	91%	90%

FUNCTIONAL CHARACTERISTICS
Operates in power-saving mode when the backup is charged.
Remote controlled backup 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 increase / increase of the backup time / redundancy.
Disconnection of the backup via a pushbutton (reset).

SMART BACKUP				
SDC-M IP exists in 4 backup packs [55W]	3D	3E	3F	3G
Latest generation LiFePO4 Lithium-ion HER Technology (no risk of thermal runaway).				
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) disconnects the backup via a static switch. The backup is automatically reconnected when mains voltage is present.				

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 power supply if I > I_n +10%.

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BACKUP DURATION ACCORDING TO OUTPUT POWER

	 DIN1 12 V / 24 V BOX2 12 V / 24 V		 DIN2 12 V / 24 V BOX2 12 V / 24 V	
	Backup D	Backup E	Backup F	Backup G
Operating power	Autonomy expressed in hours and minutes			
5 W	2h54	5h49	8h44	11h38
7 W	2h15	4h30	6h45	9h
10 W	1h40	3h21	5h01	6h42
15 W	1h10	2h20	3h30	4h40
20 W	0h53	1h46	2h40	3h33
25 W	0h43	1h26	2h09	2h52
30 W	0h36	1h12	1h48	2h24
35 W	0h31	1h02	1h33	2h04
40 W	0h27	0h54	1h21	1h48
45 W	0h24	0h48	1h12	1h37
50 W	0h21	0h43	1h05	1h27
55 W	0h19	0h39	0h59	1h19

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 indicators for each Ethernet port status (Link/Act)

Steady green	Flashing Green
Connected	**- Connected** **- Ethernet link status**

COMMUNICATION

2 ports 100 Mbps available to connect the DC Micro-UPS to Ethernet Network and remote information (serial number, system status), analog values monitoring (output voltage and current, % backup time, mains status, internal temperature), and parameters setup with on-board HTTPS website.

Auto MDI/MDI-X	yes
MAC Adress	8,000 address
Data Transfer Method	Store & Forward
Data Transfer Rate	650 Mbps
Frame size and delay (max)	1,518 octets / 126 µs
Update program	Upgrade via HTTPS web browser

Supported Protocols: IPv4, HTTPS, TCP, UDP, ICMP, ARP,DHCP, SNMP V1 & V3, BACnet IP.

PRODUCT REFERENCES

Interpretation of the product reference designations : **SDC-M [Voltage] 3[Backup] [box]IP**

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

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