> 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-in connectors with polarizing slot.
  (Input 110 / 230 V AC, 1 output 55 V DC).
- 1 RJ45 port 100 Mbps.
- 1 PoE/PoE+ port 100 Mbps.

Network cable: Ethernet cable Cat 5 or more / shielded or unshielded / straight or twisted

> 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 / IEEE 802.3af/at
Ethernet IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3az (Energy Efficient Ethernet EEE)

CE   RoHS 3 2015/865

> Environmental specifications

Temperature	
Storage	-20 à +45°C
Operating	-10 to +55°C at 100% load in normal and backup mode
	-5 to +55°C at 100% load in battery charge mode
Humidity	
Storage	relative humidity 10 to 95%
Operating	relative humidity 20 to 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 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 à 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	1.5 A
Primary current @ 264 V AC	0.38 A

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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		
Output (Smart Backup)	η @ 20% loading	η @ 75% dloading	η @ 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.
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 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
	Backup 3D	Backup 3G
Operating power	Autonomy expressed in hours and minutes	
5 W	2h49	11h14
7 W	2h11	8h46
10 W	1h39	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

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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 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** **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). **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 allow 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 webserver.

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 [Backup] [Box] P1

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