



> 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						
<ul style="list-style-type: none"> • EN IEC 62368-1 (2020) + A11 (2020) • EN IEC 61000-6-1 (2019) • EN IEC 61000-6-2 (2019) • EN IEC 61000-3-2 (2019) A class • EN IEC 61000-6-3 (2021) • EN IEC 61000-6-4 (2019) • 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)				   		
> 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						
MTBF						
100,000 h (with battery) and 200,000 h (without battery) 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			

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 Backup 3D		 DIN2 Backup 3G
	Autonomy expressed in hours and minutes		
Operating power			
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

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 μ s			
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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