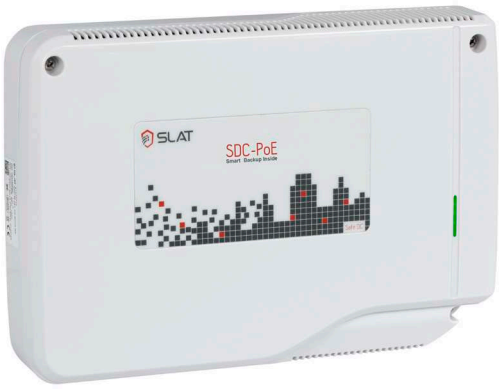
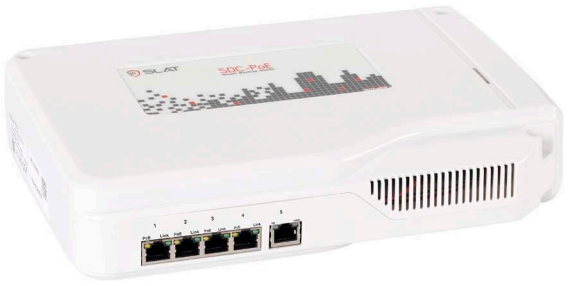
SLAT
for safer buildings

SDC-PoE4

PoE + Edge Switch, backed up by Integrated Micro-UPS
SNMP / BACnet IP protocols

PoE / PoE+ (IEEE 802.3 af/at)
-
4-port PoE + switch, 15 min to 5h emergency function integrated, with very long service life





BOX2
dim (mm) → W285 X H198 X D61

Product images non-contractual

BUILT-IN FUNCTIONS

- → Secures up to 4 PoE / PoE+
- → PoE 60 W budget
- → 15 min to 5h integrated backup
- → Integrated LiFePO4 backup, with very long service life
- → Configurable reboot function for each port
- → SNMP / BACnet IP open communication protocols.

KEY PRODUCT FEATURES.

- → Protects PoE equipment against any electrical disturbance, internal or external
- → Ultra-compact & plug-and-play
- → Performs self-diagnostic and that of its environment
- → Saves wiring
- → 4 Ethernet 100 Mbps ports / 1 000 Mbps port protected.

SDC-PoE4 60 W

SNMP / BACnet IP communication

SDC-PoE4 is a PoE + edge switch, with integrated Micro-UPS DC function. In the event of a power failure, it ensures continuity of service for powered PoE equipment , by means of a backup feature integrated into the product. SDC-PoE4 is installed as close as possible to the applications and provides all the advantages for optimizing wiring and simplifying maintenance.

MECHANICAL CHARACTERISTICS					
BOXES	Size W x H x D (mm)	Weight (kg)	Materials	Protection rating	Installation
BOX2 	**285 x 198 x 61**	**1 - 1.5**	ABS	30	Wall mounted / Shelf placement

CONNECTIONS

- 1 power cable to be connected to the 110 / 230 V AC mains.
- 1 RJ45 1 000 Mbps port.
- 4 PoE / PoE+ 100 Mbps Ports.

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 802.3i, IEEE 802.3u, Flow Control IEEE802.3x, IEEE802.3az (Energy Efficient Ethernet EEE)

ENVIRONMENTAL SPECIFICATIONS

TEMPERATURE	
Storage	-25 to +60°C
Operating	-10 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 AC network	98 to 265 V AC
Voltage DC network	140 to 375 V AC
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 max per RJ45 port	30 W		
Total PoE budget	60 W		
Management of port priority	no		
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.
M/A function per port.
Filters disturbances of the electrical network.
Without fan.
Configurable reboot function (stop and restart automatically) on each port.
Indicates the % of remaining autonomy.
Disconnection of the backup via a pushbutton (reset).

SMART BACKUP		
SDC-PoE4 is available in 2 backup packs	3D	3E
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 push button on the board disconnects the backup via a static switch. The backup is automatically reconnected when mains voltage is present		

PROTECTIONS
Against surge and overvoltage on primary (Lightning or industrial origins).
Against overvoltage on output terminals (control failure or cabling error) by disconnection and automatic restart when output voltage exceeds U_n+10%
Against overload by power limitation to P_n+10%.
Against short-circuits on output terminals by disconnection and automatic restart.
Against overcurrent and short-circuits by disconnecting the PoE port to I > I_n + 10%.

BACKUP DURATION ACCORDING TO OUTPUT POWER

	Backup D	Backup E
Operating power	**Autonomy expressed in hours and minutes**	
5 W	**2h31**	**5h01**
7 W	**2h**	**4 h**
10 W	**1h32**	**3h04**
15 W	**1h06**	**2h12**
20 W	**0h51**	**1h42**
25 W	**0h42**	**1h23**
30 W	**0h35**	**1h10**
35 W	**0h30**	**1h**
40 W	**0h27**	**0h53**
45 W	**0h24**	**0h47**
50 W	**0h21**	**0h43**
55 W	**0h20**	**0h39**

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** **Suppression mode**	**Backup mode**	**Installation fault** - Overcurrent, short circuit - Low voltage output (product overload). - Excessive power supply temperature - 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	
1 port 1,000 Mbps makes it possible to connect the end switch to the Ethernet network (or for local diagnosis) in order to consult information remotely (product serial number, system status), to communicate analog values (voltage and load current, % of backup remaining, power status, internal temperature of the UPS DC) and to configure its settings via the on-board HTTPS web site.	
Auto MDI/MDI-X	yes
MAC address table	8,000 entries
Transmission method	Store & Forward
Intern switch 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] BOX2 P4**
Available at www.slat.com and SLAT price list.

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

Find out more about the SDC-PoE4 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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