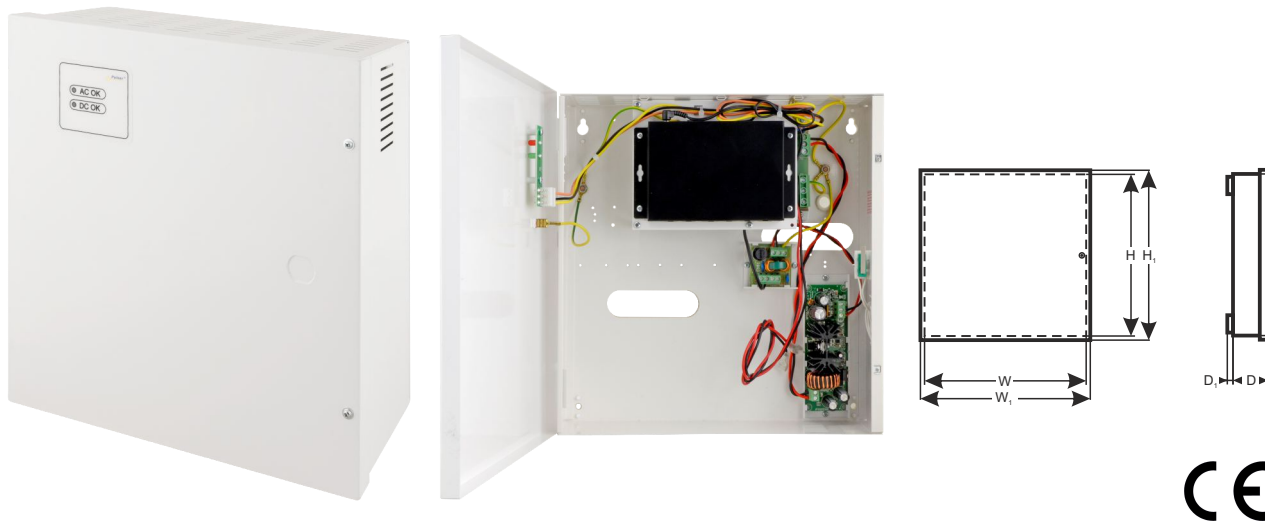CODE: **SG64-B**   v.1.1/II   **EN****
TYPE: **SG64-B 6-port switch with buffer power supply for 4 IP cameras**

Features:

- Uninterruptible power supply of 4 IP cameras (52VDC)
- Switch 6 ports
  4 PoE ports 10/100/1000Mb/s (data transfer and power supply)
  2 ports 10/100/1000Mb/s (UP LINK)
- 30W for each PoE port, supports devices complaint with the IEEE802.3af/at **(PoE+)** standard
- Approximate backup time: 2h

- Metal enclosure – color white RAL 9003 with battery space for a 7Ah/12V battery
- Supports auto-learning and auto-aging of MAC addresses (1K size)
- warranty – 2 year from the production date

DESCRIPTION

The SG64-B is dedicated for uninterruptible power supply of 4 IP cameras (52VDC power supply).

The main elements of this system include:
- 6 port PoE switch
- 13,8V buffer power supply with a single 1 x 7Ah / 12V battery
- A converter (DC/DC52115) increasing the voltage to 52VDC (supply of the PoE switch)

In case of power decay, a battery back-up is activated immediately.

The approximate backup time is given assuming that all output ports are used (using typical devices and 7Ah batteria). The electricity consumption for own needs and the energy efficiency of the power intake track were taken into account. The exact description of how to perform the calculations can be found at: "Approximate backup time - assumptions for calculations".

Automatic detection of any devices powered in the PoE/PoE+ standard is enabled at the 1 – 4 ports of the switch. The UP LINK ports is used for connection of another network device e.g. recorder. The LEDs at the front panel indicate the operation status.

The switch is housed in a metal enclosure (color RAL 9003) which can accommodate a 1x7Ah/12V battery. The enclosure features a micro switch tamper indicating door opening (front panel).
The SG64-B is fitted with two LEDs on the front panel (red LED – indicates 230VAC power supply of the PSU, green LED indicates the presence of DC voltage).

The PoE technology ensures a network connection and reduces installation costs by eliminating the need to supply a separate power cable for each device. This method allows supplying other network devices, such as IP phone, wireless access point or router.

PARAMETERS OF THE SWITCH

Ports	6 10/100/1000Mb/s ports (4 x PoE + 2 x UP LINK) with connection speed auto-negotiation and MDI/MDIX Auto Cross
PoE power supply	IEEE 802.3af/at (1÷4 ports), 52V DC / 30W at each port * Used pairs 4/5 (+), 7/8 (-)
Protocols, Standards	IEEE802.3, 802.3u, 802.3x CSMA/CD, TCP/IP
Bandwidth	8,8Gbps
Transmission method	Store-and-Forward
Optical indication of operation	Switch power supply; Link/Act; PoE Status

* The given value of 30W per port is the maximum value. The total power consumption should not exceed 48W when all PoE ports are being used.

ELECTRICAL PARAMETERS

Mains supply	176÷264V AC / 50Hz
Current up to	0,7A@230VAC max.
Supply power	55W
Output current at the PoE ports (RJ45)	4 x 0,6A ΣI=1A (max.)
Output voltage at the PoE ports (RJ45)	52VDC
Short-circuit protection SCP and overload protection OLP	105% ÷ 150% PSU power, manual restart (the fault requires disconnection of the DC output circuit)
PSU current consumption	250mA/13,8VDC
Battery charge current	0,5A max. /1x7Ah (+/-5%)
Approximate backup time	2h
Battery circuit protection SCP and reverse polarity connection	melting fuse
Deep discharge battery protection UVP	U<9,5V (± 5%) – disconnect of connection battery
Sabotage protection: - TAMPER output indicating enclosure opening	- microswitch, NC contacts (enclosure closed), 0,5A@50V DC (max.)

MECHANICAL PARAMETERS

Dimensions	$W=280$, $H=291$, $D+D_1=82+8$ [+/- 2mm] $W_1=285$, $H_1=295$ [+/- 2mm]
The dimensions of the battery compartment	170 x 110 x 65mm (WxHxD) max
Gross/Net weight	2,7 / 2,9 kg
Enclosure	Steel plate, DC01 1,0mm color white RAL 9003
Closing	Cheese head screw x 2 (at the front), (lock assembly possible)
Connectors	Power supply of the cameras: RJ45 socket Input 230VAC: Φ 0,63-2,50 (AWG 22-10) Battery output BAT: 6,3F-2,5 TAMPER output: wires
Notes	The enclosure does not touch the assembly surface so that cables can be led.