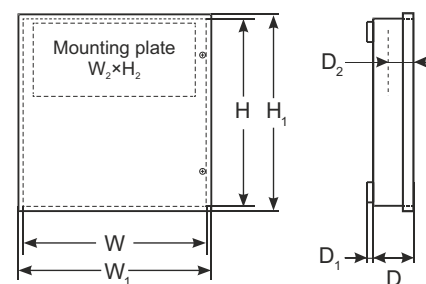
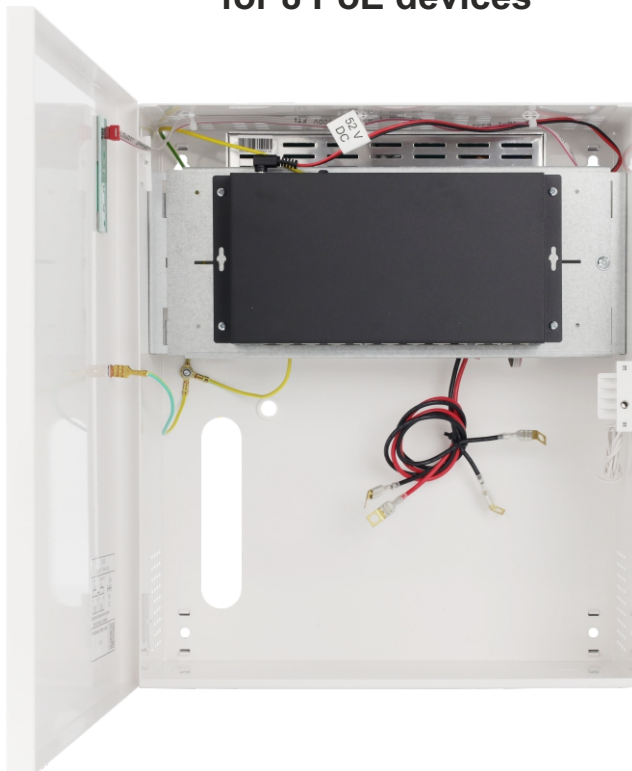


CODE: **SG108B** v.1.0/I
NAME: **SG108B 10-port switch with buffer power supply for 8 PoE devices**

EN



Features:

- Uninterruptible power supply for 8 PoE devices (52 V DC)
- Switch 10 ports
8 PoE ports 10/100/1000 Mb/s (data transmission + power supply)
2 UpLink ports 10/100/1000 Mb/s
- 30 W for each PoE port, supports devices compliant with the IEEE802.3af/at standard
- Battery charging current: 0,5 A
- Space for a 2x12Ah/12V (SLA) battery
- Metal enclosure – white colour RAL 9003
- Removable universal mounting plate
- LED optical indication
- **Approximate backup time: >7,5h***
- **START** function of manual switch to battery power
- Battery charging and maintenance control
- Deep discharge battery protection
- Protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
 - tamper protection: unauthorized enclosure opening
 - protection against reverse battery connection
- Warranty: 2 years

GENERAL DESCRIPTION

SG108B is a solution for uninterruptible power supply of 8 PoE devices (52 V DC power supply).

The main components of this system are:

- 10-port PoE switch.
- 52 V buffer power supply (with built-in converter) designed to operate with two 12 Ah / 12 V batteries connected in series.

In case of power failure, a battery back-up is activated immediately. The switch - at ports 1 – 8 - automatically detects devices powered in the PoE standard. The ports marked UP LINK are used to connect additional network devices, e.g. a recorder. The front panel features LED optical indication of the operating status. The switch is housed in a metal enclosure (RAL 9003) with space for two 12 Ah / 12 V batteries, equipped with a microswitch indicating opening of the door (front panel) and three LEDs on the front panel.

The approximate backup time is specified assuming that all output ports are fully occupied with typical devices and that a 12Ah (x2) battery is used. The electricity consumption for own needs and the energy efficiency of the power intake track were taken into account. A detailed description of the calculation method can be found in the document: "Approximate backup time - calculation assumptions".

The PoE technology provides a network connection and reduces installation costs by eliminating the need to supply a separate power cable to each device. In addition to cameras, other network devices that use this technology can also be powered in this way, e.g. IP phones, access points, routers, access control devices, video intercoms and PoE speakers.

* The specified backup time was calculated for a load of 20% (typical monitoring system) and dedicated batteries.

TECHNICAL DATA

Power supply	~ 200 – 240 V; 0,7 A; 50/60 Hz
Inrush current	50 A
Efficiency	87%
PoE supply	52 V DC; 120 W (8 x 0,6A Σ I=2,3A max.)
Ripple voltage	100 mV p-p max.
Battery charging voltage	22 – 27,6 V DC
Battery charging current	0,5 A
Battery circuit protection SCP and reverse polarity connection	glass fuse F _{BAT} : F5A/250V
Deep discharge battery protection UVP	U<19 V ($\pm$ 5%) - disconnection of battery circuit
Overload protection (OLP)	105 – 150% of power supply, automatic recovery
Surge protection	varistors
Current consumption by PSU during battery-assisted operation	about 30 mA
LED optical indication output	LED AC - presence of AC voltage LED DC - presence of DC voltage in output of PSU LED CHARGE - battery charging process
Connectors	Power input: Φ 0,63-2,50 (AWG 22-10) PoE power supply output: DC plug 2.1/5.5 BAT output: 6.3F battery leads – 45 cm, angled ML062 push-on terminals (5.2 mm hole)
Operating conditions	Temperature: -10°C – +40°C relative humidity 20%...90%, without condensation
Protection class EN 62368-1	I (first)
Degree of Protection EN 60529	IP20
Vibrations and impulse waves during transport	According to PN-83/T-42106
Dimensions	W=300, H=350, D+D ₁ =122+14 [+/- 2mm] W ₁ =305, H ₁ =354 [+/- 2mm] W ₂ =250, H ₂ =180, D ₂ =45 [+/- 2mm]
Enclosure	Steel sheet, DC01 1,0mm color RAL 9003
Closing	Cheese head screw (at front, lock assembly possible)
Notes	Enclosure does not adjoin assembly surface so that cables can be led.
Additional equipment	n/a
Net/gross weight	5,0 / 5,4 [kg]
Declarations, warranty	CE, 2 years



Sample assembly:

