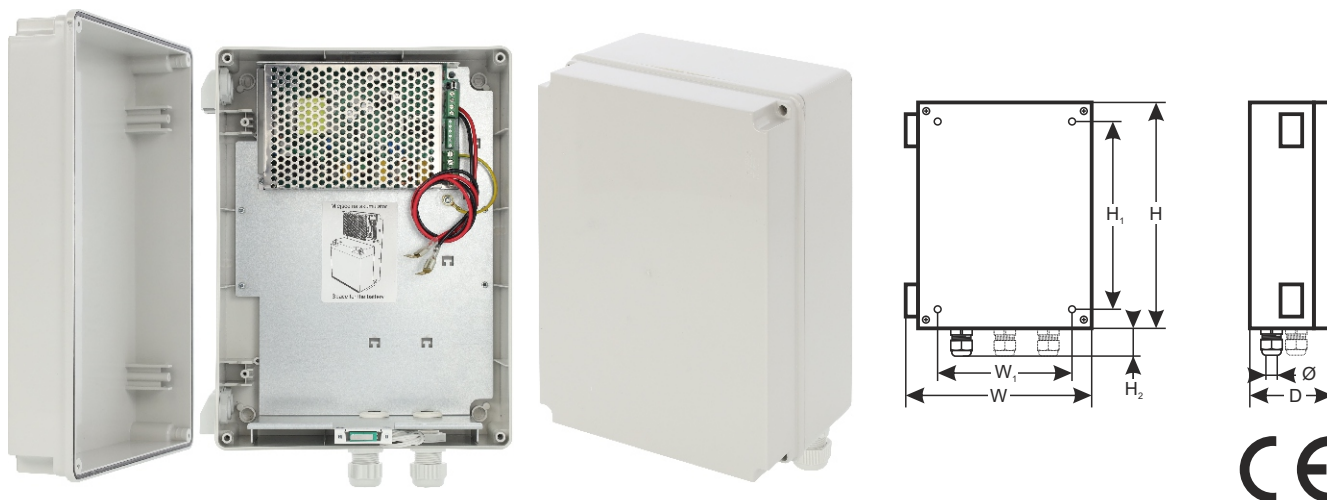


HPSG2H series power supply unit

Switch mode power supply unit with battery backup, Grade 2,
ABS enclosure IP44

CODE: **HPSG2H-12V5A-C** v.1.0/I **EN**
TYPE: **HPSG2H 13,8V/5A/17Ah** switch mode power supply unit with battery backup,
Grade 2, ABS enclosure IP44



Features:

- compliance with norm EN50131-6:2017 in grade 1, 2 and II environmental class
- compliance with norm EN60839-11-2:2015+AC:2015 and I environmental class
- supply voltage ~200 - 240 V
- DC 13,8 V/5 A uninterruptible power supply
- space for battery 17Ah/12V (SLA)
- high efficiency (up to 87%)
- function START allows running PSU from battery power
- enclosure **ABS – IP44**
- used glands help to provide wires into enclosure
- possibility of pole mounting (requires OZB4 adapter - optional accessory)
- LED optical indication
- deep discharge battery protection (UVP)
- battery charging current jumper selectable
- dynamic battery test
- battery circuit continuity control
- battery voltage control
- battery charging and maintenance control
- battery output protection against short circuit and reverse connection
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
 - antisabotage protection: unwanted enclosure opening
- warranty – 2 years from production date

DESCRIPTION

The buffer power supply is designed in accordance with the requirements of the (I&HAS) EN50131-6:2017 in grade 1, 2 and II environmental class and (KD) EN60839-11-2:2015+AC:2015 standard and I environmental class. The power supplies units are intended for an uninterrupted supply of I&HAS and KD devices requiring stabilized voltage of 12 V DC ($\pm 15\%$).

DISPLAYING PARAMETERS OF THE POWER SUPPLY:

PSU's name	Output voltage	Charging current	Output current		Total output current with charging
			in standby mode for grade 1, 2 EN50131-6	for general purpose application	
HPSG2H-12V5A-C	13,8 V	1 / 2 A	$\Sigma=1,41$ A	4 / 3 A	5 A

In case of power failure, a battery back-up is activated immediately. Power supply is placed in **ABS (IP44)** enclosure, which can accommodate a 17Ah/12V (SLA) battery. Enclosure is equipped with a tamper switch signaling opening the door (front panel).



PSU module should be configured properly, depending on application, to work in burglary and assault signalling systems or access control. For this purpose, appropriate charging current should be selected (taking into account battery capacity and required charging time).



TECHNICAL DATA	HPSG2H-12V5A-C
PSU type (EN 50131-6)	A (EPS - External Power Source), II environmental class
Supply voltage	~ 200 – 240 V
Current consumption	0,8 A
Power frequency	50/60 Hz
Inrush current	40 A
Output power PSU	69 W
Total output current with charging	5 A
Efficiency	87%
Output voltage	11 - 13,8 V – buffer operation 10 - 13,8 V – battery-assisted operation
Ripple voltage (max.)	100 mV p-p
Current consumption by PSU systems during battery-assisted operation	30 mA
Battery capacity	17-20 Ah/ 12 V (SLA)
Charging current (jumper selectable)	1 / 2 A
Overload protection (OLP)	105-150% power, automatically recovered
Over voltage protection (OVP)	>19 V (activation requires disconnecting the load or supply for about approx. 1 min.)
Battery circuit protection SCP and reverse polarity connection	- glass fuse F_{BAT} (in case of a failure, fuse-element replacement required – under power supply cover)
Fuses: - F_{BAT}	T 6,3A/250V
Deep discharge battery protection UVP	$U < 9,5$ V ($\pm 5\%$) – disconnection of battery circuit
Technical outputs: - EPS; output indicating AC power failure - APS; output indicating battery failure	- relay type: 1A@ 30 V DC/50 V AC
Optical indication	- LCDs on PSU's PCB
Enclosure dimensions	W=238, H=308, D=130 [+/- 2mm]
Installation	$W_1=185$, $H_1=265$ [+/- 2mm]
Height glands	$H_2=37$ [+/- 2mm]
Recommended battery	W=190, H=176, D=86 [+/- 2mm]
Number of cable glands / cable diameter	2 szt. / 10 - 14 mm
Net/gross weight	1,9 / 2,1 [kg]
Enclosure	ABS enclosure, IP44
Closing	Screw x 4 (at front)
Protection class EN 62368-1	I (first)
Protection class EN 60529	IP44
Environmental class EN 50131-6	II
Environmental class EN 60839-11-2	I
Notes	Convictional cooling

