

CODE: **HPSBH-12V3A-B** v.1.0/1 **EN**  
TYPE: **HPSBH 13,8V/3A/7Ah** switched mode power supply with battery backup,  
ABS enclosure IP44



## Features:

- supply voltage ~200 - 240 V
- DC 13,8 V/3 A uninterruptible power supply
- space for battery 7Ah/12V (SLA)
- high efficiency (up to 87%)
- LED optical indication
- deep discharge battery protection (UVP)
- enclosure **ABS – IP44**
- used glands help to provide wires into enclosure
- possibility of pole mounting (requires OZB3 adapter - optional accessory)
- 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
- warranty – 2 years from production date

## DESCRIPTION

The buffer power supply is used for uninterrupted supply equipment requiring stabilized voltage of 12 V DC (+/-15%). The PSU provides voltage of **U=13,8 V DC**. Current efficiency:

**Output current 3 A + 0,5 A battery charging current**

**Total current of the receivers + battery: 3,5 A max.**

In case of power failure, a battery back-up is activated immediately. Power supply is placed in **ABS (IP44)** enclosure, which can accommodate a 7Ah/12V (SLA) battery.

TECHNICAL DATA	HPSBH-12V3A-B
Supply voltage	~ 200 – 240 V
Current consumption	0,5 A
Power frequency	50/60 Hz
Inrush current	40 A
Output power PSU	48 W
Total output current with charging	3,5 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	40 mA
Battery capacity	7 Ah/ 12 V (SLA)
Charging current (jumper selectable)	0,5 A
Overload protection (OLP)	105-150% mocy 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	- polymer fuse (returnable)
Deep discharge battery protection UVP	U<9,5 V (± 5%) – disconnection of battery circuit
Optical indication	- LEDs on PSU's PCB
Enclosure dimensions	W=210, H=248, D=95 [± 2mm]
Installation	W <sub>1</sub> =155, H <sub>1</sub> =205 [± 2mm]
Cable gland height	H <sub>2</sub> =35 [± 2mm]
Recommended battery	W=157, H=100, D=68 [± 2mm]
Number of cable glands/cable diameter	2 szt. / 10 - 14 mm
Net/gross weight	1,2 / 1,3 [kg]
Enclosure	ABS enclosure, IP44
Closing	Screw x 4 (at front)
Protection class EN 62368-1	I (first)
Protection grade EN 60529	IP44
Notes	Convectonal cooling