

# PSBSH series power supply unit

Buffer, switch mode power supply unit 13,8V DC, without automatic operation control, IP65, ABS



EN\*\*

CODE: **PSBSH 2012B** v.1.1/V1  
TYPE: **PSBSH 13,8V/2A/7Ah/HERMETIC** Buffer, switch mode power supply unit



## Features:

- DC 13,8V/2A uninterruptible power supply
- fitting battery: 7Ah/12V
- supply voltage AC 230V
- high efficiency 71%
- low voltage ripple
- battery charging and maintenance control
- excessive discharging (UVP) protection
- battery charge current 0,2A/0,5A jumper selectable
- START facility for manual battery connection
- battery output protection against short-circuit and reverse connection
- EPS technical output of 230V power failure – OC type
- PSU technical output indicating PSU failure – OC type
- LoB technical output indicating low battery voltage – OC type
- adjustable times indicating 230V power failure
- protections:
  - SCP short-circuit protection
  - OHP overheat protection
  - overvoltage protection
  - against sabotage - opening of the enclosure
  - OLP overload protection
  - IP65 ABS, hermetic enclosure
- warranty – 2 year from the production date

## DESCRIPTION

A buffer PSU is intended for an uninterrupted supply to alarm systems devices requiring stabilized voltage of **12V DC (+/-15%)**. The PSU provides voltage of **13,8V DC**. Current efficiency:

1. Output current **2A (without battery)**
2. Output current **1,8A + 0,2A battery charge**
3. Output current **1,5A + 0,5A battery charge**

**Total device current + battery: 2A max.**

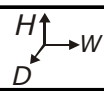
In case of power decay, a battery back-up is activated immediately. The PSU is located in an ABS enclosure which can accommodate a 7Ah/12V. Battery and features a microswitch indicating door opening (front cover).

# PSBSH series power supply unit

Buffer, switch mode power supply unit 13,8V DC, without automatic operation

control, IP65, ABS



SPECIFICATIONS	
PSU type	A (EPS - External Power Source)
Mains supply	230V AC 50Hz
Current up to	0,23A @230V AC
Supply power	30 W
Efficiency	71%
Output voltage	11,0V± 13,8V DC – buffer operation 10,0V± 13,8V DC – battery-assisted operation
Output current	<b>2A (without battery)</b> <b>1,8A + 0,2A battery charge</b> <b>1,5A + 0,5A battery charge</b>
Voltage adjustment range	12V± 14,5V DC
Ripple	40 mV p-p max.
Battery charge current	0,2A/0,5A – jumper selectable I <sub>BAT</sub>
Short-circuit protection SCP	Electronic - current limitation and/or activation of the F <sub>BAT</sub> melting fuse in the battery circuit (failure requires fuse replacement) Automatic return
Overload protection OLP	110-150% of the PSU power, manual restart (failure requires the disconnection of the DC output)
Battery circuit SCP and reverse polarity protections	F3,15A - current limitation, F <sub>BAT</sub> fuse (in case of a failure, fuse-element replacement required)
Surge protection	varistors
Excessive discharge protection UVP	U<10V(± 0,5V) - disconnection of battery terminal
Tamper protection: - TAMPER output indicating enclosure opening	- micro switch, NC contacts (enclosure closed), 0,5A@50V DC (max.)
Technical outputs: - EPS; output indicating AC power failure  - PSU; output indicating no DC power/PSU failure  - LoB; output indicating low battery voltage	- OC type: 50mA max. Normal operation: L state (0V), failure: hi-Z state, - delay time 10s/60s (+/-20%) – jumper selectable T <sub>AC</sub>  - OC type: 50mA max. Normal operation: L state (0V), failure: hi-Z state,  - OC type, 50mA max. Normal operation (U <sub>BAT</sub> >11,5V): L state (0V), failure (U <sub>BAT</sub> <11,5V): hi-Z state The power supply unit does not feature a battery detection function.
Operating conditions	2nd environmental class, -10 °C÷40 °C
Enclosure	ABS, IP65, light grey
Enclosure dimensions	185 x 265 x 95 (WxHxD) [mm] (+/- 2)
Net/gross weight	2,0kg / 2,20kg
Fitting battery	7Ah/12V (SLA) max. 170 x 115 x 75mm (WxHxD) max 
Closing	Cheese head screw x6 (at the front)
Declarations, warranty	CE, RoHS, 2 year from the production date
Notes	The enclosure has a removable mounting board with the PSU systems.

# PSBSH series power supply unit

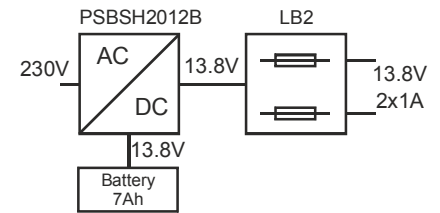
Buffer, switch mode power supply unit 13,8V DC, without automatic operation control, IP65, ABS



## Optional configurations: Battery 7Ah

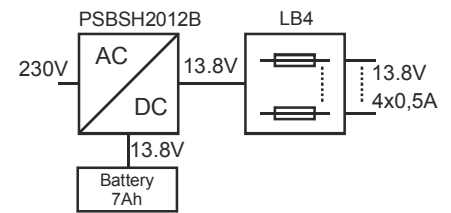
### Buffer power supply PSBSH 13,8V/2x1A/7Ah

- PSBSH 2012B + LB2 2x1A (AWZ585, AWZ586) + 7Ah



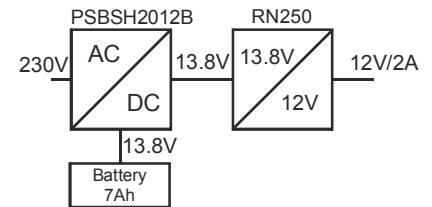
### Buffer power supply PSBSH 13,8V/4x0,5A/7Ah

- PSBSH 2012B + LB4 4x0,5A (AWZ574, AWZ576) + 7Ah



### Buffer power supply PSBSH 13,8V/12V/2A/7Ah

- PSBSH 2012B + RN250 (13,8V/12V) + 7Ah



### Buffer power supply PSBSH 13,8V/5V÷7,4V/2A/7Ah

- PSBSH 2012B + DCDC20 (5V÷7,4V/2A) + 7Ah

