

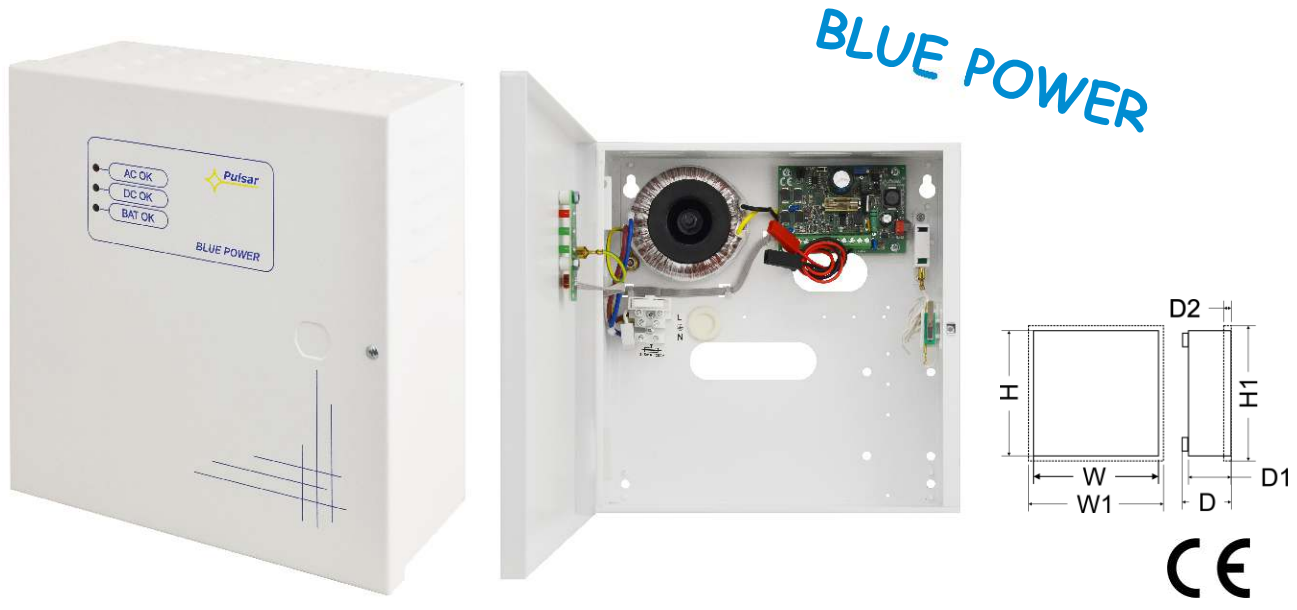
PSBS series power supply unit



Buffer, switch mode power supply unit 13,8V DC with technical outputs

CODE: **PSBS 1012B** v.1.0/II
TYPE: **PSBS 13,8V/1A/7Ah/OC** Buffer switch mode power supply unit with technical outputs.

EN**



PSU features:

- uninterruptible power supply DC 13,8V/1A
- battery housing: 7Ah/12V
- supply voltage AC 230V
- high efficiency 71%
- low voltage ripple
- battery charging and maintenance control
- deep discharge battery protection (UVP)
- battery charging current 0,2A/0,5A jumper selectable
- START button to start the battery
- battery output protection against short-circuit and reverse connection
- LED indication
- 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
- Optional installation of the MPSBS relay module changing technical outputs of the OC type to relay type
- adjustable times of 230V AC failure indication
- Protection type:
 - SCP short-circuit protection
 - Overheat protection OHP
 - surge protection
 - Tamper protection: enclosure opening and detachment from the wall
 - overload protection OLP
- warranty - 5 years from the production date

DESCRIPTION

A buffer PSU is designed for uninterrupted supply of devices requiring stabilized voltage of **12V DC (+/-15%)**. The PSU supplies voltage of **U=13,8V DC** and total current capacity of:

1. Output current **1A + 0,2A battery charging**
2. Output current **0,7A + 0,5A battery charging**

Total current + battery is max. 1,2A

In case of mains power loss, the unit will instantly switch to battery operation. The PSU is enclosed in a metal casing (color RAL 9003) with battery housing for 7Ah/12V batteries. The enclosure is fitted with a micro switch indicating door opening (front cover) and the detachment from the wall.

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SPECIFICATIONS	
PSU type	A (EPS - External Power Source)
Mains supply	230V AC (-15% /10%) 50Hz
Current consumption	0,13A@230VAC
PSU's power	17W
Efficiency	71%
Output voltage	11V± 13,8V DC – buffer operation 10V± 13,8V DC – battery operation
Output current	1A + 0,2A battery charging 0,7A + 0,5A battery charging
Voltage adjustment range	12÷14,5VDC
Ripple voltage	50mV p-p max.
Battery charging current	0,2A or 0,5A – jumper selectable
Short-circuit protection SCP	Electronic - automatic return
Overload protection OLP	110-150% of the PSU power, manual restart
Battery circuit protection SCP and reverse polarity connection	F2A- current limitation, the F _{BAT} melting fuse
Surge protection	varistors
Deep discharge battery protection UVP	U<10V (± 0,5V) – disconnection of battery terminal
Tamper protection: - TAMPER output indicating enclosure opening or detachment from the wall	- micro switch x 2 NC contacts (enclosure closed and mounted to the mounting base), 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 _{AC} - OC type: 50mA max. Normal operation: L state (0V), failure: hi-Z state, - OC type, 50mA max. Normal operation (UBAT >11,5V): L state (0V), failure (UBAT <11,5V): hi-Z state
LED indication	Yes – LEDs
Operating conditions	2nd environmental class, -10 °C+40 °C
Enclosure	Steel plate, DC01 0,7mm color RAL 9003
Enclosure dimensions	230 x 230 x 80+8 (WxHxD) [mm] (+/- 2)
Net/gross weight	2,02kg / 2,2kg
Battery housing	7Ah/12V (SLA) max. 150x95x75mm (WxHxD) max
Closing	Cylindrical screw (at the front) (lock assembly possible)
Deklarations, warranty	CE, RoHS, 5 years from the production date
Notes	The enclosure does not adjoin the mounting surface so that cables can be led. Convection cooling. Mains supply 230V AC: Φ0,51±2 (AWG 24-12) Outputs : Φ0,41±1,63 (AWG 26-14) BAT battery outputs: 6,3F-2,5, 30cm TAMPER output: cables, 25cm



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OPTIONAL POWER SUPPLY CONFIGURATIONS:

1. **Buffer power supply unit PSBS 13,8V/relay module MPSBS/7Ah**
 - PSBS 1012B + MPSBS + 7Ah
2. **Buffer power supply unit PSBS 13,8V/2x0,5A/MPSBS/7Ah**
 - PSBS 1012B + LB2 2x0,5A (AWZ586) + MPSBS + 7Ah
3. **Buffer power supply unit PSBS 13,8V/12V/1A/MPSBS/7Ah**
 - PSBS 1012B + RN250 (13,8V/12V) + MPSBS + 7Ah
4. **Buffer power supply unit PSBS 13,8V/12V/2x0,5A/MPSBS/7Ah**
 - PSBS 1012B + RN250 (13,8V/12V) + LB2 2x0,5A (AWZ586) + MPSBS + 7Ah
5. **Buffer power supply unit PSBS 13,8V/5V÷7,4V/2A/MPSBS/7Ah**
 - PSBS 1012B + DCDC20 (5V÷7,4V/2A) + MPSBS + 7Ah
6. **Buffer power supply unit PSBS 13,8V/5V÷7,4V/2x1A/7Ah**
 - PSBS 1012B + DCDC20 (5V÷7,4V/2A) + LB2 2x1A (AWZ585 or AWZ586) + 7Ah