

PSBSH series power supply unit

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



CODE: **PSBSH 1012A** v.1.1/V EN**
TYPE: **PSBSH 13,8V/1A/1,2Ah/HERMETIC** Buffer, switch mode power supply unit



Features:

- DC 13,8V/1A uninterruptible power supply
- fitting battery: 1,2Ah/12V
- supply voltage AC 230V
- high efficiency 70%
- low voltage ripple
- battery charging and maintenance control
- excessive discharging (UVP) protection
- battery charge current 0,2A
- 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 1A (without battery)
2. Output current 0,8A + 0,2A battery charge

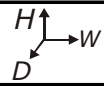
Total device current + battery: 1A max.

In case of power decay, a battery back-up is activated immediately. Battery charge current is preset to 0,2A. The PSU is located in an ABS enclosure which can accommodate a 1,2Ah/12V battery and features a microswitch indicating door opening (front cover).

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SPECIFICATIONS	
PSU type	A (EPS - External Power Source)
Mains supply	230V AC 50Hz
Current up to	0,14A @230V AC
Supply power	17 W
Efficiency	70%
Output voltage	11,0 V \div 13,8 V DC – buffer operation 10,0 V \div 13,8 V DC – battery-assisted operation
Output current	1A (without battery) 0,8A + 0,2A battery charge
Voltage adjustment range	12V \div 14,5V DC
Ripple	30 mV p-p max.
Battery charge current	0,2A
Short-circuit protection SCP	Electronic - current limitation and/or activation of the F _{BAT} 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	F2A - current limitation, F _{BAT} fuse (in case of a failure, fuse-element replacement required)
Surge protection	varistors
Excessive discharge protection UVP	U<10V - 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 _{AC} - OC type: 50mA max. Normal operation: L state (0V), failure: hi-Z state, - OC type, 50mA max. Normal operation (U _{BAT} >11,5V): L state (0V), failure (U _{BAT} <11,5V): hi-Z state The power supply unit does not feature a battery detection function.
Operating conditions	2nd environmental class, -10 °C \div 40 °C
Enclosure	ABS, IP65, light grey
Enclosure dimensions	160 x 160 x 90 (WxHxD) [mm] (+/- 2)
Net/gross weight	1,3kg / 1,4kg
Fitting battery	1,2Ah/12V (SLA) max. 100 x 55 x 45mm (WxHxD) max 
Closing	Cheese head screw x4 (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.