

PSBS series power supply unit



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

EN**

CODE: **PSBS 10A12E** v.1.1/V
TYPE: **PSBS 13,8V/10A/65Ah/OC** Buffer switch mode power supply unit with technical outputs.



PSU features:

- uninterruptible power supply DC 13,8V/10A
- alternative outputs AUX1, AUX2, AUX3, 3x2,5A current limit
- battery housing: 65Ah/12V
- supply voltage AC 230V
- high efficiency 79%
- low voltage ripple
- battery charging and maintenance control
- deep discharge battery protection (UVP)
- battery charging current 1A/2A/3A/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
 - overload protection OLP
 - overvoltage protection OVP
 - Tamper protection: enclosure opening and detachment from the wall
- 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 10A + 1A battery charging
2. Output current 9A + 2A battery charging
3. Output current 8A + 3A battery charging
4. Output current 6A + 5A battery charging

Total current + battery is max. 11A

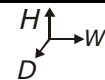
In case of mains power loss, the unit will instantly switch to battery operation. The PSU is enclosed in a metal casing (color RAL 9003) with battery housing for 65Ah/12V batteries. The enclosure is fitted with a micro switch indicating door opening (front cover) and the detachment from the wall.

PSBS series power supply unit



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

SPECIFICATIONS	
PSU type	A (EPS - External Power Source)
Mains supply	230V AC (-15% /10%) 50Hz
Current consumption	1,1A@230VAC
PSU's power	152W
Efficiency	79%
Output voltage	11V± 13,8V DC – buffer operation 10V± 13,8V DC – battery operation
Output current	10A + 1A battery charging 9A + 2A battery charging 8A + 3A battery charging 6A + 5A battery charging
Voltage adjustment range	12÷14,5VDC
Ripple voltage	80mV p-p max.
Battery charging current	1A / 2A / 3A / 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	F10A- current limitation, the F _{BAT} melting fuse
Surge protection	varistors
Overvoltage protection OVP	>16V (automatic return)
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 1,2mm color RAL 9003
Enclosure dimensions	400 x 370 x 170+8 (WxHxD) [mm] (+/- 2)
Net/gross weight	9,32kg / 10,7kg
Battery housing	65Ah/12V (SLA) max. 350x175x165mm (WxHxD) max
Closing	Cylindrical screw x2 (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.



PSBS series power supply unit



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

Optional configurations:

PSBS 10A12E Battery 65Ah.

- 1. Buffer power supply PSBS 13,8V/relay module MPSBS/65Ah**
 - PSBS 10A12E + MPSBS + 65Ah
- 2. Buffer power supply PSBS 13,8V/8x1A/65Ah**
 - PSBS 10A12E + LB8 8x1A (AWZ579 or AWZ580) + 65A
- 3. Buffer power supply PSBS 13,8V/2x12V/2x5A/65Ah**
 - PSBS 10A12E + 2xRN500 (13,8V/12V) + 65Ah

PSBS 10A12E Battery 40Ah.

- 1. Buffer power supply PSBS 13,8V/relay module MPSBS/40Ah**
 - PSBS 10A12E + MPSBS + 40Ah
- 2. Buffer power supply PSBS 13,8V/16x0,5A/40Ah**
 - PSBS 10A12E + 2xLB8 16x0,5A (AWZ578 or AWZ580) + 40Ah
- 3. Buffer power supply PSBS 13,8V/2x12V/2x5A/MPSBS/40Ah**
 - PSBS 10A12E + 2xRN500 (13,8V/12V) + MPSBS + 40Ah
- 4. Buffer power supply PSBS 13,8V/10x1A/40Ah**
 - PSBS 10A12E + 2xLB8 10x1A (AWZ579 or AWZ580) + 40Ah
- 5. Buffer power supply PSBS 13,8V/2x12V/16x0,5A/40Ah**
 - PSBS 10A12E + 2xRN500 (13,8V/12V) + 2xLB8 16x0,5A (AWZ578 or AWZ580) + 40Ah