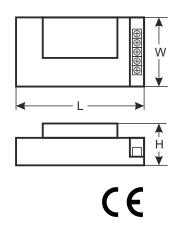
PSBOC series power supply unit

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

CODE **PSBOC751250** v.1.0/V

TYPE: **PSBOC 13,8V/5A/OC Enclosed buffer switch mode power supply unit** with technical outputs.





Features:

- 13,8VDC/5A uninterrupted supply*
- wide range of supply voltage 176÷264VAC
- high efficiency 80%
- battery charge and maintenance control
- deep discharge battery protection (UVP)
- battery charging current 0,5A
- battery output protection against short circuit and reverse polarity connection
- LED indication

- EPS technical output indicating AC power loss – OC and relay type
- PSU technical output indicating PSU failure – OC and relay type
- LoB technical output indicating battery low voltage – OC and relay type
- protections:
 - SCP short-circuit protection
 - OVP over voltage protection
 - surge protection
 - OLP overload protection
- warranty 2 year from the production date

DESCRIPTION

A buffer PSU is intended for an uninterrupted supply to devices requiring stabilized voltage of **12V DC** (+/-15%). The PSU provides voltage of **U=13,8V DC** current efficiency **I=4,5A+0,5A battery charging***. In the case of power failure from prime supply, the unit is instantly switched to battery assisted operation.

During normal operation, the total current drawn by the equipment may not exceed I = 4,5A. Maximum battery charge current: 0,5A. Total device current + battery: 5A max*.



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* See chart 1

♦*Pulsar*[®]

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SPECIFICATIONS	
Mains supply	176 ÷ 264V AC
Current consumption	0,72A@230VAC max.
PSU power	75W max.
Efficiency	80%
Output voltage	11V÷ 13,8DC – buffer operation 9,5V÷13,8DC – battery-assisted operation
Output current t _{AMB} <30°C	4,5A + 0,5A battery charge – see chart 1
Output current t _{AMB} =40°C	3A + 0,5A battery charge – see chart 1
Voltage adjustment range	12÷14V DC
Ripple voltage	120 mV p-p max.
Current consumption by PSU systems	60mA
Battery charging current	0,5A
Short-circuit protection SCP	electronic, automatic recovery
Overload protection OLP	105÷150% of power supply, automatic recovery
Battery circuit protection SCP and reverse polarity connection	polymer fuse
Surge protection	varistors
Surge over voltage protection OVP	>16V (automatic recovery)
Deep discharge protection UVP	U<9,5V (± 5%) – disconnection of the battery terminal
Technical outputs: - EPS; output indicating AC power failure	- relay type: 1A@ 30VDC/50VAC - OC type, 50mA max., normal status: L (0V) level, failure: hi-Z level
- PSU; output indicating DC absence/PSU failure	- relay type: 1A@ 30VDC/50VAC, - OC type, 50mA max., normal status: L (0V) level, failure: hi-Z level
- LoB output indicating battery low voltage	 relay type: 1A@ 30VDC/50VAC, OC type, 50mA max., normal status: (U_{BAT} >11,5V): L (0V) level, failure: (U_{BAT} <11,5V): hi-Z level The power supply unit does not feature a battery detection function.
LED indication	Yes – LEDs
Operating conditions	2nd environmental class, temperature: -10°C ÷ +40°C
Dimensions	L=159, W=97, H=68 [+/- 2mm]
Net/gross weight	0,62kg / 0,65kg

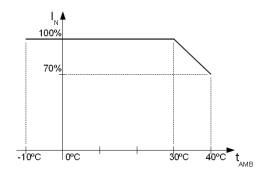


Chart 1. Acceptable output current from the PSU depending on ambient temperature.