PSBOC series power supply unit



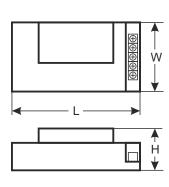
Enclosed buffer switch mode power supply unit 13,8V DC with technical outputs

CODE **PSBOC351225** v.1.1/IX

EN*

TYPE: PSBOC 13,8V/2,5A/OC Enclosed buffer switch mode power supply unit with technical outputs.







Features:

- 13,8VDC/2,5A uninterrupted supply*
- wide range of supply voltage 176÷264VAC
- high efficiency 74%
- 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 voltage low
 - 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 13,8V DC with current capacity I=2A + 0,5A battery charge*. In case of power decay, a battery back-up is activated immediately.

During normal operation, the total current drawn by the receivers may not exceed I=2A. Maximum battery charging current: 0,5A. Total device current + battery: 2,5A max*.

^{*} See chart 1



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

SPECIFICATIONS	
Mains supply	176 ÷ 264V AC
Current consumption	0,45A@230VAC max.
PSU power	35W max.
Efficiency	74%
Output voltage	11V÷13,8DC – buffer operation
	9,5V÷13,8DC – battery-assisted operation
Output current t _{AMB} <30°C	2A + 0,5A battery charge – see chart 1
Output current t _{AMB} =40°C	1,4A + 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	60 mA
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=129, W=98, H=67 [+/- 2mm]
Net/gross weight	0,51kg / 0,54kg
Declarations, warranty	CE, RoHS, 2 year from the production date

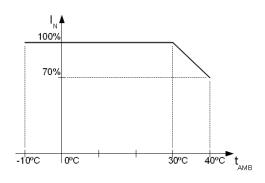


Chart 1. Acceptable output current from the PSU depending on ambient temperature.