PSBOC series power supply unit





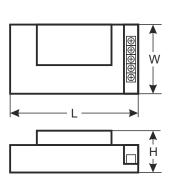
EN**

CODE **PSBOC501235** v.1.1/IX **PSBOC 13,8V/3,5A/OC En**

PSBOC 13,8V/3,5A/OC Enclosed buffer switch mode power supply unit

with technical outputs.





 ϵ

Features:

- 13,8VDC/3,5A uninterrupted supply*
- wide range of supply voltage 176÷264VAC
- high efficiency 76%
- 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
 OC and relay type voltage
- 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=3A + 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=3A. Maximum battery charging current: 0.5 A. Total device current + battery: 3,5A max*.



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

SPECIFICATIONS	
Power supply	176 ÷ 264V AC
Current consumption	0,6A@230VAC max.
PSU power	50W max.
Efficiency	76%
Output voltage	11V÷ 13,8V DC – buffer operation
	9,5V÷13,8V DC – battery-assisted operation
Output current t _{AMB} <30°C	3A + 0,5A battery charge – see chart 1
Output current t _{AMB} =40°C	2,1A + 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	polymer fuse
polarity connection	· ·
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:	1. 1
- EPS; output indicating AC power failure	- relay type: 1A@ 30VDC/50VAC - OC type, 50mA max., normal status: L (0V) level, failure: hi-Z level
	- OC type, 50mA max., normal status. L (0v) level, failure. ni-2 level
- PSU; output indicating DC absence/PSU	- relay type: 1A@ 30VDC/50VAC,
failure	- 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
LED in direction	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
Declarations, warranty	CE, RoHS, 2 year from the production date

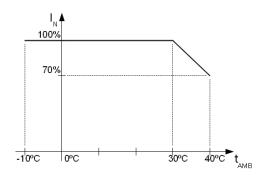


Chart 1. Acceptable output current from the PSU depending on ambient temperature.