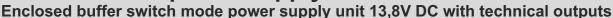
PSBOC series power supply unit

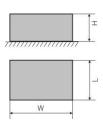




EN**

CODE **PSBOC1001270** v.1.1/VIII

TYPE: PSBOC 13,8V/7A/OC Enclosed buffer switch mode power supply unit with technical outputs.



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Features:

- 13,8VDC/7A 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 1A/2A jumper selectable
- 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 13,8V DC with current capacity:

- 1. Output current 6A + 1A battery charging*
- 2. Output current 5A + 2A battery charging*

Total device current + battery: 7A max*.

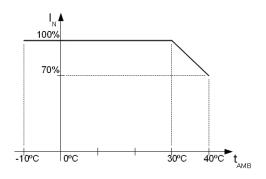
In the case of power failure from prime supply, the unit is instantly switched to battery assisted operation. The power supply unit features: short circuit, overload, surge and over voltage protections.

^{*} 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	0,95A@230VAC max.
PSU power	100W max.
Efficiency	80%
Output voltage	11V÷ 13,8DC – buffer operation
3.	9,5V÷13,8DC – battery-assisted operation
Output current t _{AMB} <30°C	6A + 1A battery charge – see chart 1
-	5A + 2A battery charge – see chart 1
Output current t _{AMB} =40°C	4,9A + 0,1A battery charge - see chart 1
	3,9A + 2A battery charge - see chart 1
Voltage adjustment range	12÷14V DC
Ripple voltage	120 mV p-p max.
Battery charging current	1A/2A jumper selectable
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	11.0 5)//: 50/) !! !! !! !! !! !!
Deep discharge protection OVP	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
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
Technical outputs:	- relay type: 1A@ 30VDC/50VAC
Technical outputs: - EPS; output indicating AC power failure - PSU; output indicating DC absence/PSU	- relay type: 1A@ 30VDC/50VAC - OC type, 50mA max., normal status: L (0V) level, failure: hi-Z level - relay type: 1A@ 30VDC/50VAC,
Technical outputs: - EPS; output indicating AC power failure - 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 relay type: 1A@ 30VDC/50VAC, OC type, 50mA max., normal status: L (0V) level, failure: hi-Z level 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. Yes – LEDs
Technical outputs: - EPS; output indicating AC power failure - PSU; output indicating DC absence/PSU failure - LoB output indicating battery low voltage	 relay type: 1A@ 30VDC/50VAC OC type, 50mA max., normal status: L (0V) level, failure: hi-Z level relay type: 1A@ 30VDC/50VAC, OC type, 50mA max., normal status: L (0V) level, failure: hi-Z level 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.
Technical outputs: - EPS; output indicating AC power failure - PSU; output indicating DC absence/PSU failure - LoB output indicating battery low voltage LED indication	 relay type: 1A@ 30VDC/50VAC OC type, 50mA max., normal status: L (0V) level, failure: hi-Z level relay type: 1A@ 30VDC/50VAC, OC type, 50mA max., normal status: L (0V) level, failure: hi-Z level 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. Yes – LEDs
Technical outputs: - EPS; output indicating AC power failure - PSU; output indicating DC absence/PSU failure - LoB output indicating battery low voltage LED indication Operating conditions	 relay type: 1A@ 30VDC/50VAC OC type, 50mA max., normal status: L (0V) level, failure: hi-Z level relay type: 1A@ 30VDC/50VAC, OC type, 50mA max., normal status: L (0V) level, failure: hi-Z level 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. Yes – LEDs 2nd environmental class, temperature: -10 °C÷40 °C



Acceptable output current from the PSU depending on ambient temperature.