# PSBOC series power supply unit

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



# CODE **PSBOC15512110** v.1.1/VIII TYPE: **PSBOC 13,8V/11A/OC Enclosed buffer switch mode power supply unit** with technical outputs.

**EN\*\*** 



## Features:

- 13,8VDC/11A uninterrupted supply\*
- wide range of supply voltage 176+264VAC
- high efficiency 83%
- battery charge and maintenance control
- deep discharge battery protection (UVP)
- battery charging current 1A/4A 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 10A + 1A battery charging\*
- 2. Output current 7A + 4A battery charging\*

### Total device current + battery: 11A 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

人 Pulsar

SPECIFICATIONS	
Mains supply	176 ÷ 264V AC
Current consumption	1,4A@230VAC max.
PSU power	155W max.
Efficiency	83%
Output voltage	11V÷ 13,8V DC – buffer operation
	9,5V÷13,8V DC – battery-assisted operation
Output current t <sub>AMB</sub> <30°C	10A + 1A battery charge – see chart 1
	7A + 4A battery charge – see chart 1
Output current t <sub>AMB</sub> =40°C	6,7A + 1A battery charge - see chart 1
	3,7A + 4A 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	1A/4A 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	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	<ul> <li>relay type: 1A@ 30VDC/50VAC,</li> <li>OC type, 50mA max., normal status: (U<sub>BAT</sub> &gt;11,5V):</li> <li>L (0V) level, failure: (U<sub>BAT</sub> &lt;11,5V): hi-Z level</li> <li>The power supply unit does not feature a battery detection function.</li> </ul>
LED indication	Yes – LEDs
Operating conditions	2nd environmental class, temperature: -10 °C÷40 °C
Dimensions	199 x 110 x 50 +23 [mm] (LxWxH) (+/- 2)
Net/gross weight	0,91kg / 0,95kg
Declarations, warranty	CE, RoHS, 2 year from the production date

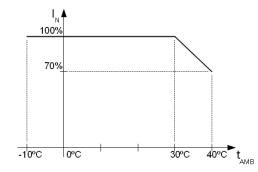


Chart 1. Acceptable output current from the PSU depending on ambient temperature.