# **PSB** series power supply



EN

Enclosed, switch mode buffer power supply 13,8V DC, without automatic operation control

CODE: PSB-15512110 v1.0/V TYPF: PSB 13,8V/11A enclosed switch mode buffer power supply

Features of the power supply:

DC 13,8V/11A uninterruptible power supply\*

• wide AC input voltage range 176÷264V

high efficiency 83%

· controlling of battery charging and maintaining

protecting of battery against excessive discharging (UVP)

 battery charging current 1A/4A, changed by jumper

 additional accessories: automation module MPSB12 (technical outputs):

EPS technical output indicating AC power loss

· PSU technical output indicating PSU failure

LoB technical output indicating battery low voltage

 battery output is full protected against shortcircuit and reverse connection

LED optical signalisation

protections:

• short-circuit protection SCP

• over voltage protection OVP

surge protection

overload protection OLP

• warranty – 2 year from the production date



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### **DESCRIPTION**

Buffer-type power supply units are intended for continuous power supply to devices that require stabilised voltage of **12V DC (+/-15%)**. The power supply provides a voltage of **U=13,8V DC** with an output current of:

- 1. Output current of 10A + 1A battery charging\*
- 2. Output current of 7A + 4A battery charging\*
  Total device current + battery: 11A max.\*

In case of power voltage decay, prompt switching to battery supply occurs. The power supply unit is protected against a short circuit, an overload, a surge or over voltage protection.

#### **TECHNICAL DATA**

Supply voltage	176÷264V AC
Current consumption	1,4A@230VAC max.
Supply power	155W max.
Efficiency	83%
Output voltage	11V÷ 13,8V DC – buffer operation
	9,5V÷ 13,8V DC – battery operation
Output current t <sub>AMB</sub> <30°C	10A + 1A battery charging - see chart 1 7A + 4A battery charging - see chart 1
Output current t <sub>AMB</sub> =40°C	6,7A + 1A battery charging - see chart 1 3,7A + 4A battery charging - see chart 1
Voltage adjustment range	12÷14V DC
Ripple voltage	120mV p-p max.
Battery charging current	1A or 4A max.
Short-circuit protection SCP	electronic
Overload protection (battery) OLP	glass fuse
Surge protection	varistors
Overvoltage protection OVP	>16V (automatic recovery)
Excessive discharge protection UVP	U<9,5V (± 5%) – disconnection of battery
Optical signalisation	green LED- presence of AC voltage
Output of optical signalization	LED AC- presence of AC voltage  LED DC- presence of DC voltage on power supply output
Additional accessories	Module MPSB12 (technical outputs)
Operation conditions	2-nd enviromental class, temperature: -10 °C÷40 °C relative humidity 20%90%, without condensation
Dimensions (LxWxH)	199 x110 x 50 [mm]
Net/gross weight	0,7kg / 0,8kg
Protection class EN 60950-1:2007	I (first) - requires a protective conductor (PE)
Declarations, warranty	CE, 2 year from the production date
Connectors	power-supply: Φ0,63÷2,5 I/O PCB: Φ0,41÷1,63 battery output BAT: 6,3F-2,5/40cm, output of optical signalization: plug 3-pin 5 mm

<sup>\*</sup> See chart 1

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### Output current vs temperature

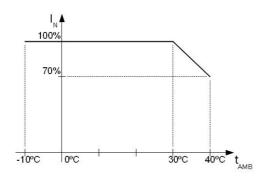


Chart 1. Allowable output current from the power supply depending on ambient temperature.

## Dimensions and fitting of the PSB-15512110 power supply

