

# PSB series power supply

Enclosed, switch mode buffer power supply 27,6V DC, without automatic operation control

CODE: **PSB-1002435** v1.0/VI  
 TYPE: **PSB 27,6V/3,5A enclosed switch mode buffer power supply**

EN

### Features of the power supply:

- DC 27,6V/3,5A 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 0,5A/1A, changed by jumper
- additional accessories: automation module MPSB24 (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 short-circuit 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



### DESCRIPTION

Buffer-type power supply units are intended for continuous power supply to devices that require stabilised voltage of **24V DC (+/-15%)**. The power supply provides a voltage of **U=27,6V DC** with an output current of:

1. **Output current of 3,0A + 0,5A battery charging\***
  2. **Output current of 2,5A + 1,0A battery charging\***
- Total device current + battery: 3,5A 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	0,90A@230VAC max.
Supply power	100W max.
Efficiency	83%
Output voltage	22V± 27,6V DC – buffer operation 19V± 27,6V DC – battery operation
<b>Output current t<sub>AMB</sub>&lt;30°C</b>	<b>3A + 0,5A battery charging - see chart 1</b> <b>2,5A + 1A battery charging - see chart 1</b>
<b>Output current t<sub>AMB</sub>=40°C</b>	<b>2A + 0,5A battery charging - see chart 1</b> <b>1,5A + 1A battery charging - see chart 1</b>
Voltage adjustment range	24+28V DC
Ripple voltage	150mV p-p max.
Battery charging current	0,5A or 1A max
Short-circuit protection SCP	electronic
Overload protection (battery) OLP	glass fuse
Surge protection	varistors
Overvoltage protection OVP	>32V (automatic recovery)
Excessive discharge protection UVP	U<19V (± 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 MPSB24 (technical outputs)
Operation conditions	2-nd enviromental class, temperature: -10 °C+40 °C relative humidity 20%...90%, without condensation
Dimensions	L=199, W=97, H=42 [±2mm]
Net/gross weight	0,6kg / 0,65kg
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

\* See chart 1

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## Output current vs temperature

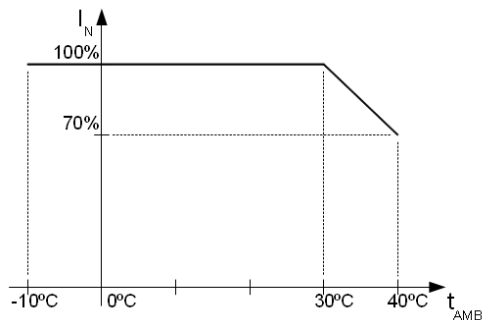


Chart 1.  
Allowable output current from the power supply depending on ambient temperature.

## Dimensions and fitting of the PSB-1002435 power supply

