

# PSB series power supply



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

CODE: **PSB-752425** v1.0/III  
TYPE: **PSB 27,6V/2,5A enclosed switch mode buffer power supply**

EN

## Features of the power supply:

- DC 27,6V/2,5A uninterruptible power supply\*
- wide AC input voltage range 176+264V
- high efficiency 80%
- controlling of battery charging and maintaining
- protecting of battery against excessive discharging (UVP)
- battery charging current 0,3A
- 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 **I=2,2A+ 0,3A battery charging\***. In case of power voltage decay, prompt switching to battery supply occurs. The power supply has the following protections: short-circuit (SCP), overload (OLP), surge protection and overvoltage (OVP).

## TECHNICAL DATA

Supply voltage	176+264V AC
Current consumption	0,72A@230V AC max.
Supply power	75W max.
Efficiency	80%
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>2,2A + 0,3A battery charging - see chart 1</b>
<b>Output current t<sub>AMB</sub>=40°C</b>	<b>1,45A + 0,3A battery charging - see chart 1</b>
Voltage adjustment range	24±28V DC
Ripple voltage	120mV p-p max.
Battery charging current	0,3A max
Short-circuit protection SCP	electronic, automatic recovery
Overload protection OLP	105-150% of power supply, automatic recovery
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=159, W=97, H=42 [±2mm]
Net/gross weight	0,4kg / 0,5kg
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

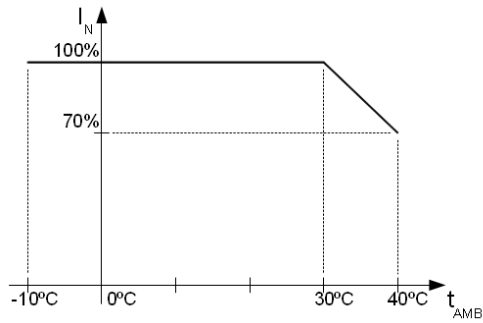


Chart 1.  
Allowable output current from the power supply depending on ambient temperature.

## Dimensions and fitting of the PSB-752425 power supply

