## **PSB** series power supply

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

CODE: TYPE:	PSB-30024100 v1 PSB 27,6V/10A enclo	.0/I EN** osed switch mode buffer power supply
	Features of the po	wer supply:
wide AC input built-in power fa high efficiency controlling of ba protecting of ba (UVP)	attery charging and maintaining attery against excessive discharging g current 1A/2A/4A, changed by	<ul> <li>battery output is full protected against short-circuit and reverse connection</li> <li>LED optical signalisation</li> <li>protections: <ul> <li>short-circuit protection SCP</li> <li>over voltage protection OVP</li> <li>surge protection</li> <li>overload protection OLP</li> <li>overheat protection OHP</li> </ul> </li> <li>warranty – 2 year from the production date</li> </ul>

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15%). The power supply provides a voltage of U=27,6V DC with an output current of:

- 1. Output current of 9A + 1A battery charging\*
- 2. Output current of 8A + 2A battery charging\*
- 3. Output current of 6A + 4A battery charging\*
- Total device current + battery charging current: 10A max.\*

In case of power voltage decay, prompt switching to battery supply occurs. The power supply is equipped with short circuit protection, overload protection, overvoltage and thermal overload protection. The power supply is fitted with a fan for forced cooling, switching on depending on the temperature and the load of the power supply.

## **TECHNICAL DATA**

Supply voltage	176÷264V AC
Current consumption	1,5A@230VAC max.
Supply power	300W max.
Efficiency	85%
Power factor PF	>0,95 @230V AC
Output voltage	22V÷ 27,6VDC – buffer operation 19V÷ 27,6V DC – battery operation
Output current t <sub>AMB</sub> <30°C	9A + 1A battery charging - see chart 1 8A + 2A battery charging - see chart 1 6A + 4A battery charging - see chart 1
Output current t <sub>AMB</sub> =40°C	6A + 1A battery charging - see chart 1 5A + 2A battery charging - see chart 1 3A + 4A battery charging - see chart 1
Voltage adjustment range	24÷28V DC
Ripple voltage	150mV p-p max.
Battery charging current	1A, 2A or 4A max.
Short-circuit protection SCP	electronic
Overload protection (battery) OLP	glass fuse
Surge protection	varistors
Overvoltage protection OVP	>32V (activation requires disconnecting the load or supply for about 20 s.)
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 MPSB12 (technical outputs)
Operation conditions	2-nd enviromental class, temperature: -10 °C÷40 °C relative humidity 20%90%, without condensation
Dimensions (LxWxH)	275 x 115 x 50 [mm]
Net/gross weight	1,25kg / 1,35kg
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: Φ0,63÷2,5 I/O PCB : Φ0,41÷1,63 output of optical signalization: plug 3-pin 5 mm

\* See chart 1

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Output current vs temperature

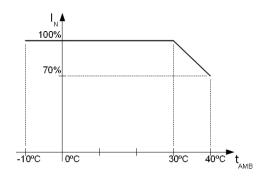
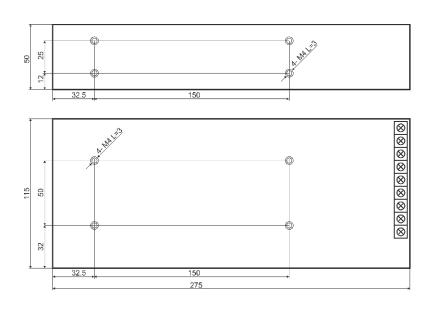
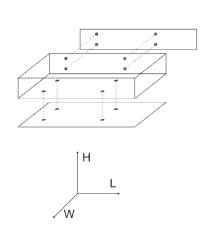


Chart 1. Allowable output current from the power supply depending on ambient temperature.

## Dimensions and fitting of the PSB-30024100 power supply





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