

PSB series power supply

Enclosed, switch mode buffer power supply 27,6 V DC



CODE: **PSB-24V10A** v1.0/l
TYPE: **PSB 27,6V/10A enclosed, switch mode buffer power supply**

EN

Features of the power supply:

- DC 27,6 V/10 A uninterruptible power supply
- high efficiency 87%
- built-in power factor correction system (PFC)
- controlling of battery charging and maintaining
- protecting of battery against excessive discharging (UVP)
- battery charging current 1/2/4 A, changed by jumper
- optional equipment: set of external LED indicators: PKAZ168, mounting plate DIN4
- 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
 - OHP overheat protection
- forced cooling - built-in fan
- warranty – 2 year from production date



DESCRIPTION

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

1. Output current of 9 A + 1 A battery charging
 2. Output current of 8 A + 2 A battery charging
 3. Output current of 6 A + 4 A battery charging
- Total device current + battery: 10 A 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	~ 200 – 240 V; 1,5 A; 50/60 Hz
Inrush current	60 A
Supply power	276 W
Efficiency	87%
Factor PF	>0,95
Output voltage (factory settings)	22-27,6 V DC – buffer operation 19-27,6 V DC – battery operation
Output current	10 A
Battery charging current	1/2/4 A jumper selectable
Voltage adjustment range	27 – 28,8 V DC
Current consumption by PSU during battery-assisted operation	approx. 25 mA
Ripple voltage	150mV p-p max.
Short-circuit protection SCP	electronic, automatic recovery
Overload protection OLP	105-150% PSU power, automatically recovered
Overload protection (battery) OLP	melting fuse T10 A
Surge protection	varistors
Overvoltage protection OVP	>37 V (activation requires disconnecting the load or supply for about approx. 1 min.)
Excessive discharge protection UVP	U<19 V ($\pm 5\%$) – disconnection of battery
Optical signalisation	LED green – indicates DC voltage at the power
LED optical indication output (intended for optional indication set PKAZ168)	LED AC – presence of AC voltage LED DC – presence of DC voltage on power supply output LED CHARGE – battery charging process
Optional equipment	A set for optical indication LED PKAZ168
Operation conditions	2-nd environmental class, temperature: -10°C+40°C relative humidity 20%...90%, without condensation
Dimensions	L=237, W= 168, H=54 [± 2 mm]
Net/gross weight	1,26 / 1,32 [kg]
Protection class electric shock protection	I (first) – requires a protective conductor
Declarations, warranty	CE, 2 year from the production date
Connectors	I/O PCB: 0,5 – 2,5 mm ² (AWG 26 – 12) output of optical signalization: 4 pins micromatch socket
Additional accessories	Battery wire $\Phi 6$ (M6-2,5), 45cm

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Dimensions and fitting of the PSB-24V10A power supply

