PSB series power supply

protecting of battery against excessive discharging

battery charging current 0,5A/1A/2A, changed by

additional accessories: automation module MPSB48

EPS technical output indicating AC power loss

PSU technical output indicating PSU failure LoB technical output indicating battery low voltage

Enclosed, switch mode buffer power supply 54V DC, without automatic operation control

PSB-3004850 v1.0/II **EN**** CODE: PSB 54V/5A enclosed switch mode buffer power supply TYPE: Features of the power supply: forced cooling - built-in fan DC 54V/5A uninterruptible power supply* battery output is full protected against wide AC input voltage range 176+264V short-circuit and reverse connection built-in power factor correction system (PFC) LED optical signalisation high efficiency 85% protections: controlling of battery charging and maintaining

- - short-circuit protection SCP
 - over voltage protection OVP ٠
 - surge protection
 - overload protection OLP •
 - overheat protection OHP



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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 48V DC (+/-15%). The power supply provides a voltage of U=54V DC with an output current of:

- 1. Output current of 4,5A + 0,5A battery charging*
- Output current of 4A + 1A battery charging*
 Output current of 3A + 2A battery charging*

Total device current + battery charging current: 5A 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

. (UVP)

jumper

(technical outputs):

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	44V÷ 54V DC – buffer operation 38V÷ 54V DC – battery operation
Output current t _{AMB} <30°C	4,5A + 0,5A battery charging - see chart 1 4A + 1A battery charging - see chart 1 3A + 2A battery charging - see chart 1
Output current t _{AMB} =40°C	3A + 0,5A battery charging - see chart 1 2,5A + 1A battery charging - see chart 1 1,5A + 2A battery charging - see chart 1
Voltage adjustment range	48÷56V DC
Ripple voltage	150mV p-p max.
Battery charging current	0,5A, 1A or 2A max.
Short-circuit protection SCP	electronic
Overload protection (battery) OLP	glass fuse
Surge protection	varistors
Overvoltage protection OVP	>62V (activation requires disconnecting the load or supply for about 20 s.)
Excessive discharge protection UVP	U<38V (± 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
Operation conditions	2-nd enviromental class, temperature: -10 °C÷40 °C relative humidity 20%90%, without condensation
Dimensions	L=275, W=115, H=50 [±2mm]
Net/gross weight	1,25kg / 1,30kg
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

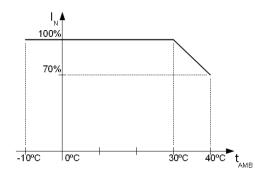
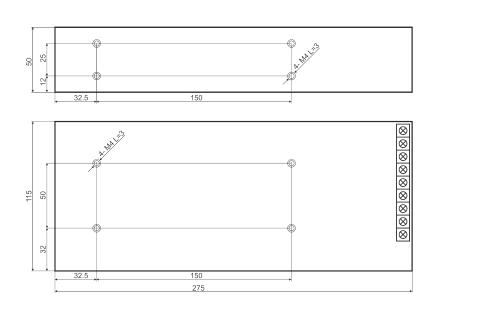
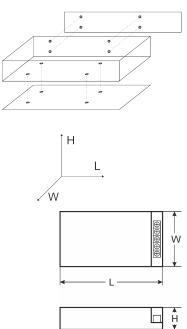


Chart 1. Allowable output current from the power supply depending on ambient temperature.

Dimensions and fitting of the PSB-3004850 power supply





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