

PSB series power supply

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

CODE: **PSB-1554828** v1.0/II

EN

TYPE: **PSB 54V/2,8A enclosed switch mode buffer power supply**

Features of the power supply:

- DC 54V/2,8A uninterruptible power supply
- wide AC input voltage range 176÷264V
- high efficiency 86%
- controlling of battery charging and maintaining
- protecting of battery against excessive discharging (UVP)
- battery charging current 0,5A/1A, changed by jumper
- 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 (AC input)
 - 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 **48V DC (+/-15%)**. The power supply provides a voltage of **U=54V DC** with an output current of:

- 1. Output current of 2,3A + 0,5A battery charging***
- 2. Output current of 1,8A + 1A battery chargin***
- Total device current + battery: 2,8A 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	1,4A@230VAC max.
Supply power	155W max.
Efficiency	86%
Output voltage	44V÷ 54V DC – buffer operation 38V÷ 54V DC – battery operation
Output current t_{AMB}<30°C	2,3A + 0,5A battery charging - see chart 1 1,8A + 1A battery charging - see chart 1
Output current t_{AMB}=40°C	1,5A + 0,5A battery charging - see chart 1 1A + 1A battery charging - see chart 1
Voltage adjustment range	48÷56V 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
Ovvoltage protection OVP	U>115% ÷ 150% output voltage - disconnecting supply output automatic return
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=199, W=110, H=50 [±2mm]
Net/gross weight	0,75kg / 0,80kg
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: Ø0,63÷2,5 I/O PCB: Ø0,41÷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

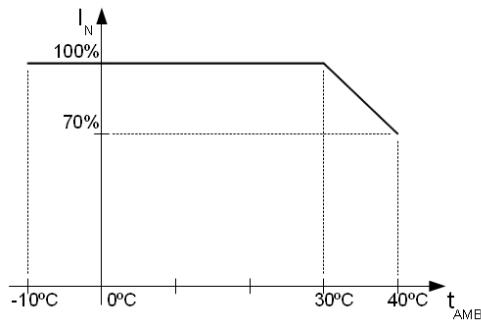


Chart 1.

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

Dimensions and fitting of the PSB-1554828 power supply

