



Power source
BRP 12V 7A
Data sheet

Device identification number

1. General Information

The power source “BRP 12V 7A” is designed for power supply to devices with constant voltage 12V and full-load current 7A and for battery charging.

2. Manufacturer

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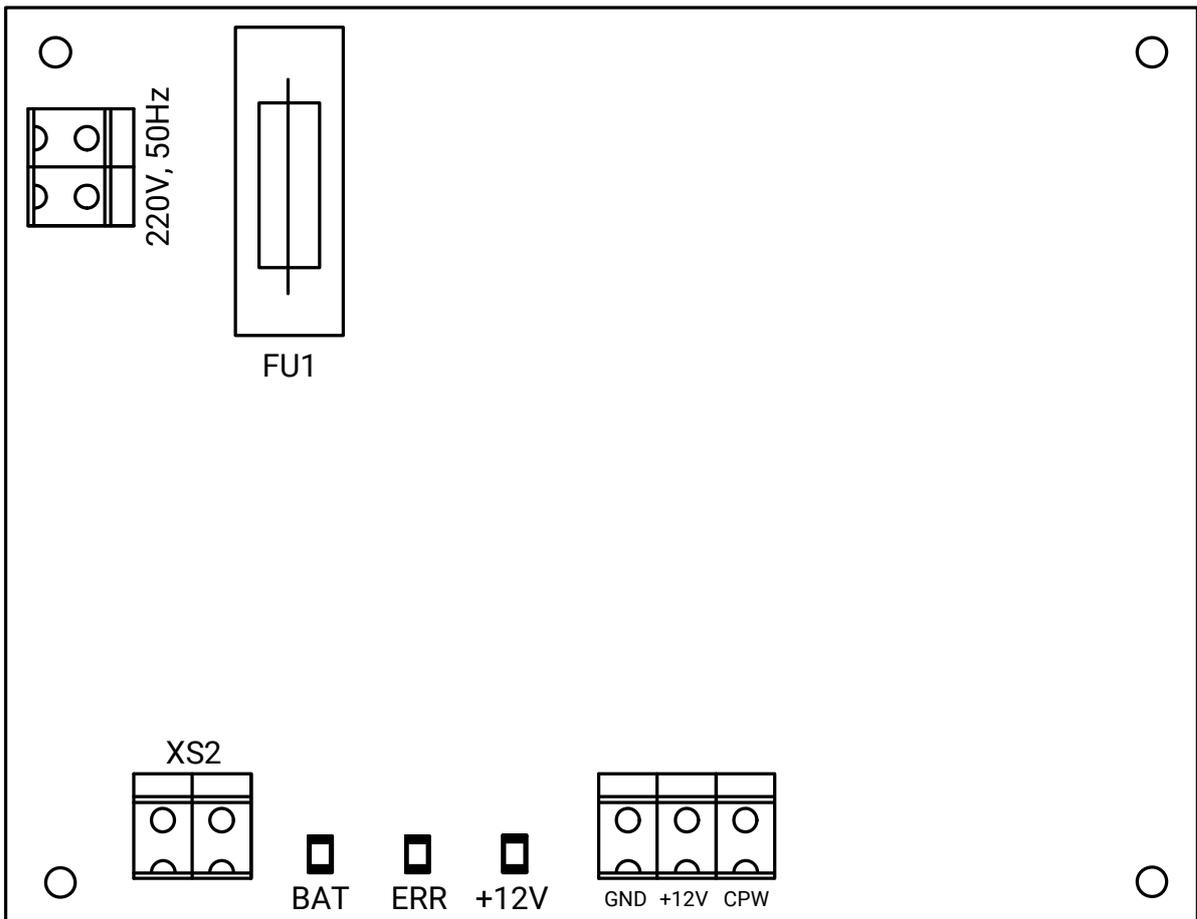
3. Package Contents

Power source “BRP 12V 7A”	1 pc
Fastening kit	1 pc
Fuse 5×20 3.15A	1 pc
Redundant power supply cable	1 pc
Data sheet	1 pc

4. Technical Specifications

Specification	Value
AC input voltage (50 Hz), V	210–240
DC input voltage of the backup battery, V	12
Max. power consumption from 220V, V·A	100
Output voltage	DC 12±0.5 V
Maximum load current, A (at ambient temperature 20 °C)	7
Peak load current, A	8.5
CPW terminal for main power supply monitoring	+
Battery protection from excess load current	+
Battery protection from deep discharge (switches off when battery voltage drops below 8 V)	+
Short circuit protection	+
Average battery charging current, A	0.25
Enclosure break-in tamper	–
Dimensions, mm	80.5×103×52
Net weight, g	172
Operating temperature range, °C	–30...+35

5. Designation of Elements



Element	Designation
220V, 50Hz	Mains connection terminals, 220 V
XS2	Redundant power supply connection terminals (battery)
GND, +12V, CPW	12 V output voltage terminals
FU1	Fuse terminal

6. Visual indication

LED	Value
ERR (red)	Redundant power supply connection error
+12V (green)	Indicator is on when input voltage is 220 V
BAT (yellow)	Indicator is on when power source is using the battery

7. Getting Ready for Operation

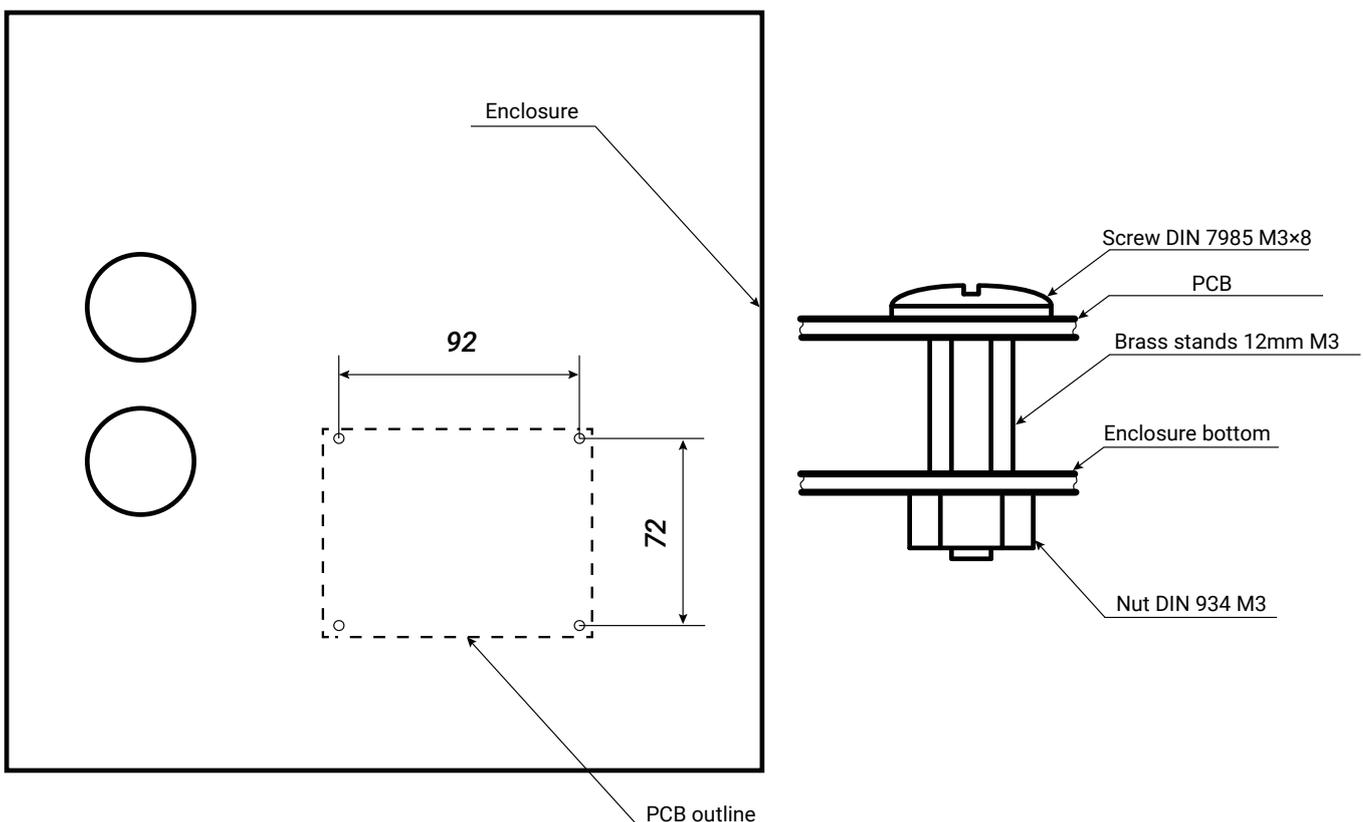
The following example shows the installation of the power source BP 12V 7A for universal metal enclosure 292×290×92.

1. Switch off the device power before device setting-up and installation.
2. To install the device choose the appropriate location most protected against atmosphere fallouts, dirt, process fluids, physical impact and free access of unauthorized persons.
3. Open the cover and drill the holes of 3 mm in diameter at handy locations of the enclosure to install the power source as the figure below shows.
4. Insert brass stands into holes and screw them with nuts from the back side.
5. Install the board "BP 12V 7A" into holes and fasten it with screws.
6. Connect the battery, the bus 220 V and 12 V to the corresponding terminals. If required connect the main power monitoring bus.



Use high quality cables with vanishing resistance!

7. Securely fasten the assembly at the location selected according to the section 7.2. Check the intact insulation of cables to the power source, make sure that power source components do not touch the enclosure and that there is at least 5 mm clearance. Supply the power.
8. Confirm the power source normal operation using LED indicators.
9. During mounting the backup battery could be discharged. If at outputs of the unplugged battery $U_{\text{battery}} \leq 11 \text{ V}$ the battery must be charged from a charger. If $U_{\text{battery}} > 11 \text{ V}$ and without switching to the backup battery recharge the battery for 1 hour and recheck it.



8. Maintenance and Safety Measures

Check the integrity of leads and cables, connection locations, and fastening security at least once per year.

All installation and maintenance activities applied to the power source should be performed by duly qualified personnel.



Under no circumstances touch the card or parts of the switched on power source. Turn off the power and wait for 2 minutes before doing anything with the power source, because capacitors may retain high voltage!

9. Transportation and Storage

The power source should be transported in packaging in closed vehicles. Storage premises should be free of current-conducting dust, acid and alkaline fumes, corrosive gases and gases harmful to insulation.

10. Manufacturer's Warranties

The manufacturer guarantees that the power source complies to requirements of the technical specifications, provided the client ensures compliances to conditions of transportation, storage, installation and operation.

Although **the warranty period** is 12 months from the commissioning date, it may not exceed 18 months from the production date.

The warranty storage period is 6 months from the production date.

The manufacturer reserves the right for modification of the power source in any way that does not degrade its functional characteristics without prior notice.

11. Information on Claims

In case of a power source failure or defect during the warranty period, please fill in a malfunction report specifying the dates of issue and commissioning of the device and nature of the defect and submit it to the manufacturer.

For Notes

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