

**Power source**  
in the “Contact” enclosure

**BRP 12V 5A**

**Data sheet**

**Device identification number**

## 1. General Information

The power source “BRP 12V 5A” in the “Contact” enclosure is designed for power supply to devices with constant voltage 12 V and full-load current 5 A.

## 2. Manufacturer

**RITM Company**  
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## 3. Package Contents

Power source “BRP 12V 5A”	1 pc
Fuse 3.15A	1 pc
Cable for back-up battery connection	1 pc
Plastic enclosure “Contact” 1.2Ah (for 1.2 Ah back-up battery) or Plastic enclosure “Contact” 7Ah (for 7 Ah back-up battery)	1 pc
Data sheet	1 pc

#### 4. Technical Specifications

<b>Specification</b>	<b>Value</b>
AC input voltage (50 Hz), V	210–240
DC input voltage of the backup battery, V	12
Max. power consumption from 220V, V·A	80
<b>Output voltage</b>	<b>DC 12±0.5 V</b>
Maximum load current, A (at ambient temperature 20 °C)	5 (w/o enclosure) 4.5 (with enclosure)
Peak load current, A	7
Average battery charging current, A	0.15
CPW terminal for main power supply monitoring	+
Battery protection from excess load current	+
Battery protection from deep discharge (switches off the battery when voltage drops below 8 V)	+
Short circuit protection	+
Enclosure break-in tamper	+
Dimensions, mm	80.5×103×52
Net weight, g	158
Operating temperature range, °C	-30... +35

## 5. Designation of Elements

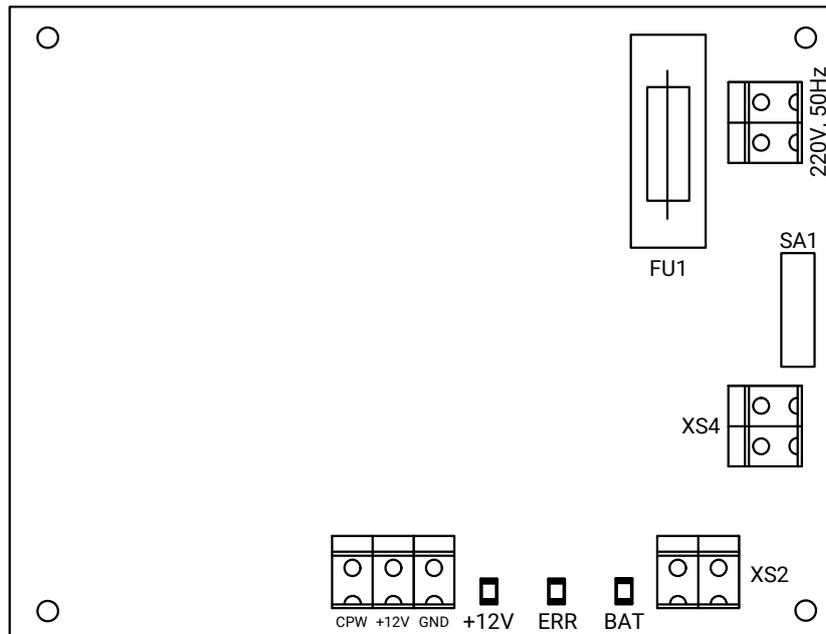


Fig. 1. Power source board

Element	Designation
220V, 50Hz	A connector for power supply 220V
XS2	A connector for back-up battery
GND, +12V, CPW	A 12V output voltage connector (CPW terminal designed for connection of main power monitoring bus)
XS4	A connector for tamper data-bus
FU1	A connector for fuse 3.15A installation
SA1	An enclosure break-in tamper

## 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

1. Switch off the device power and redundant battery 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 enclosure cover and carefully connect the battery, the power bus 12 V and 220 V to the corresponding terminals. If required connect the main power monitoring bus and the enclosure break-in bus.
4. Securely fasten the device at the selected according to the section 2 location and supply the power.
5. Confirm the device normal operation using LED indicators.
6. Close the enclosure cover securely and confirm the tamper is closed. Screws the screws.

## 8. Installation in the Enclosure

The power source comes in enclosures "Contact" 1.2Ah and "Contact" 7Ah. The place for installation of the power source and overall dimensions of enclosures are shown in figures 2 and 3.

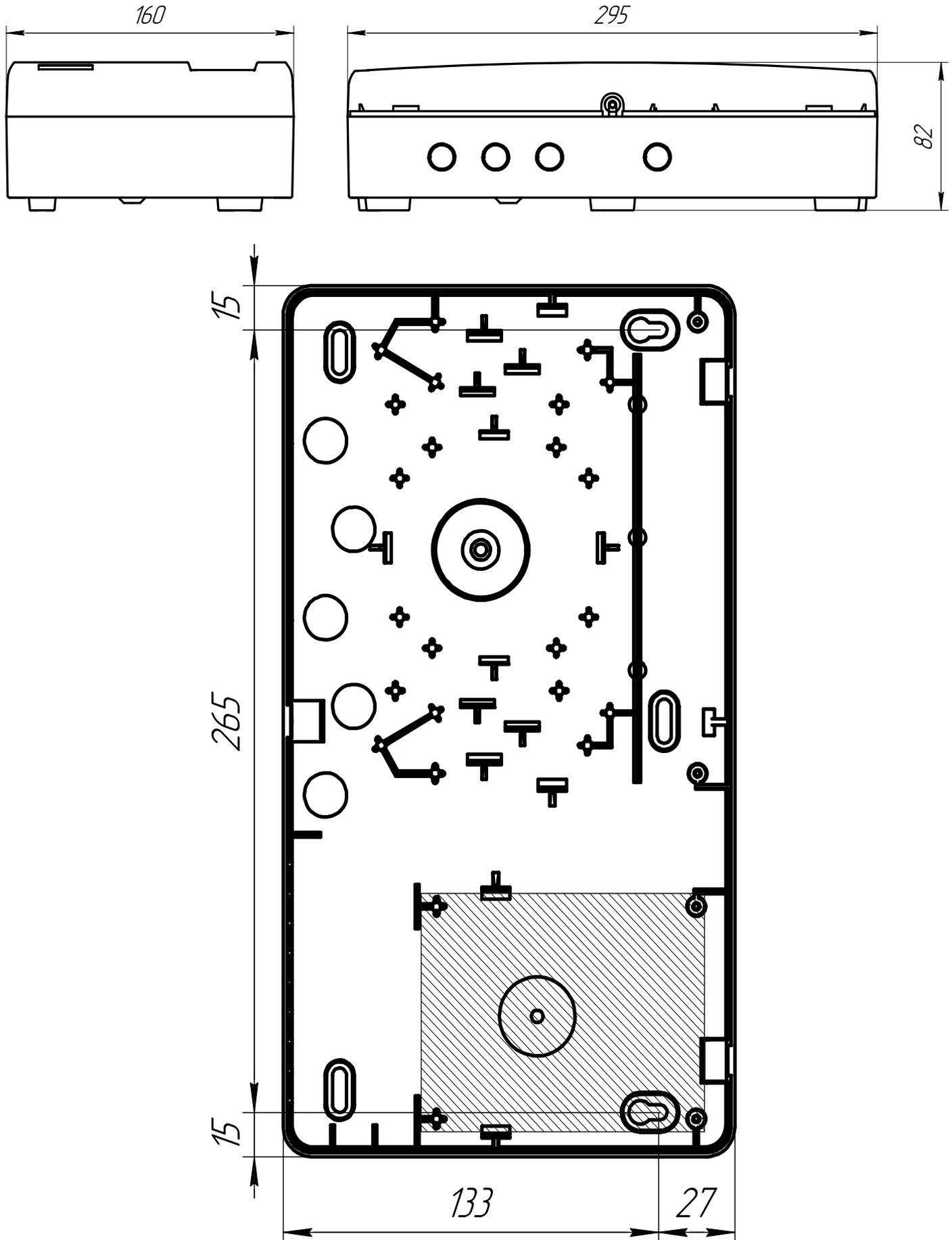


Fig. 2. Enclosure "Contact" 1.2Ah

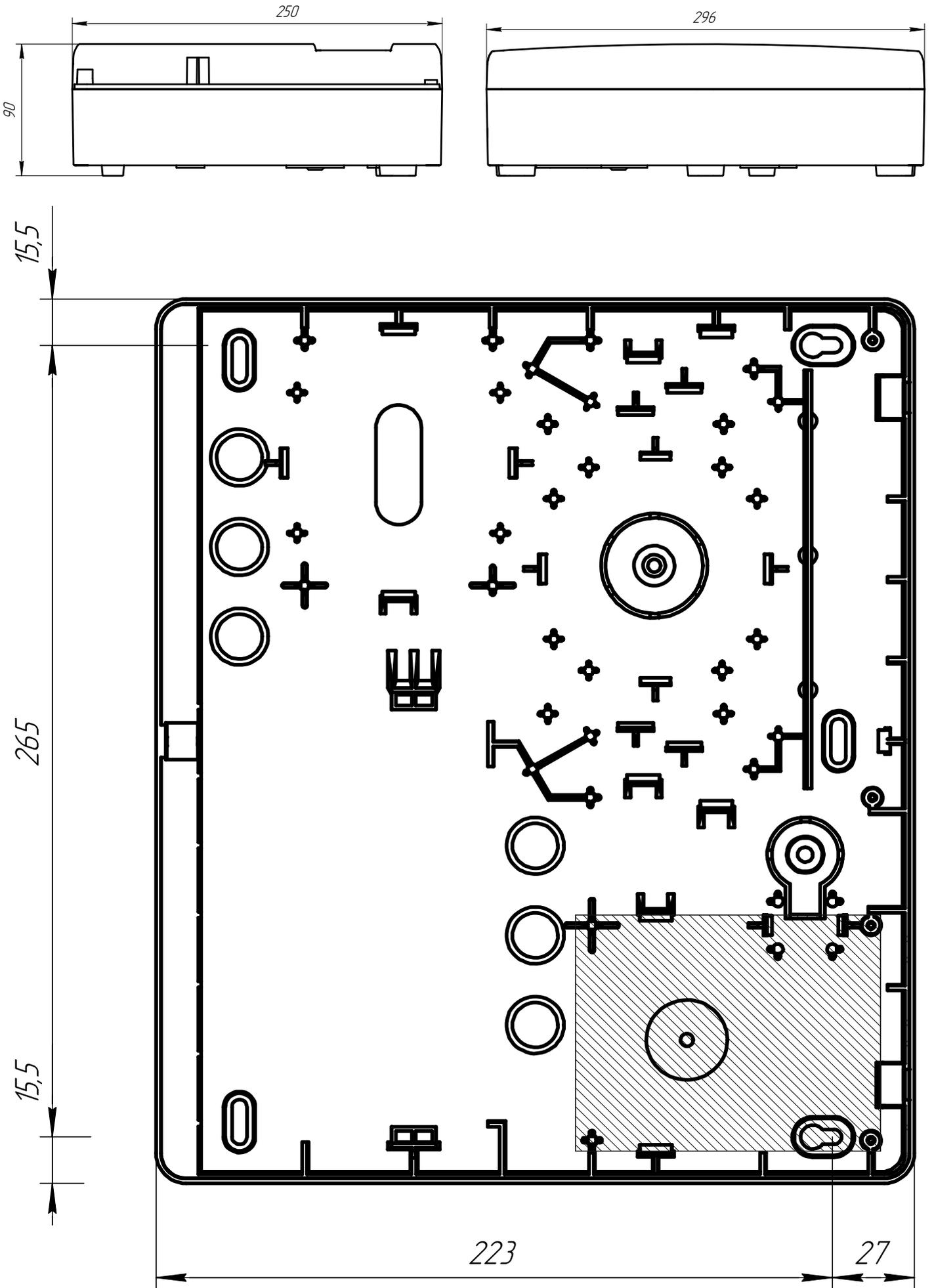


Fig. 3. Enclosure "Contact" 7Ah

## 9. 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!

## 10. 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.

## 11. Manufacturer's Warranties

The manufacturer guarantees that the power source complies with 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.

## 12. 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**