

**VOLTAGE RECTIFIER – BATTERY CHARGER, 140 W  
TEMPERATUR COMEPATION OUTPUT VOLTAGE  
HEAVY DUTY  
Type: PBR**

**DECSRIPTION**

With the voltage rectifier - battery charger, consumers are powered by a 24 V direct current, 48 V or 110 V, with simultaneous charging or maintenance of the battery.

The device is intended for operation in difficult climate-mechanical operating conditions (mounting in a cabinet on transmission line pole) as well as electrical operating conditions (pronounced transients in the mains voltage).

The device has an output voltage regulator, which changes the output voltage to depending on the battery's ambient temperature. The voltage changes according to the relationship - 4 mV / °C / cell. The thermoprobe is electronic analog.

The device is constructed in the form of a metal box intended for mounting on device panel. Connections are connectors.

Type:	PBR 24 - 03	PBR 24 - 05	PBR 48 – 2.5	PBR 110 – 01
Output voltage:	24 VDC	24 VDC	48 VDC	110 VDC
Output current:	3 A	5 A	2,5 A	1 A

**TECHNICAL DATA**

- Input voltage: 230 V, 50 Hz
- Input voltage deviation: 195 V to 260 V
- Correction of charging voltage  
according to ambient temperature: -4 mV/°C/cell
- Thermal probe: semiconductor – analog
- Output voltage stability: ±1%
- Charging characteristic: IU
- Maximum current battery charging: current limit minus the consumer current
- Utility factor: 0.91
- Design: two-transistor forward
- Operating frequency: 85 kHz
- Input protection: overvoltage, overvoltage  
undervoltage, overcurrent
- Output protection: overvoltage, overcurrent
- Remote notification: failure - closed relay contacts (supply - static)
- Adjustment: output voltage - with a potentiometer on the board
- Ambient temperature during operation: -25°C to +55°C
- Construction: box made of galvanized steel sheet
- Dimensions (w x h x d): 190 mm x 130 mm x 82 mm

Created: Štetić

Reviewed: Hlušička

Approved: Štetić

**MARETON**  
POWER ELECTRONIC  
ZAGREB-CROATIA

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Rev: 3 | Dat May 2017.

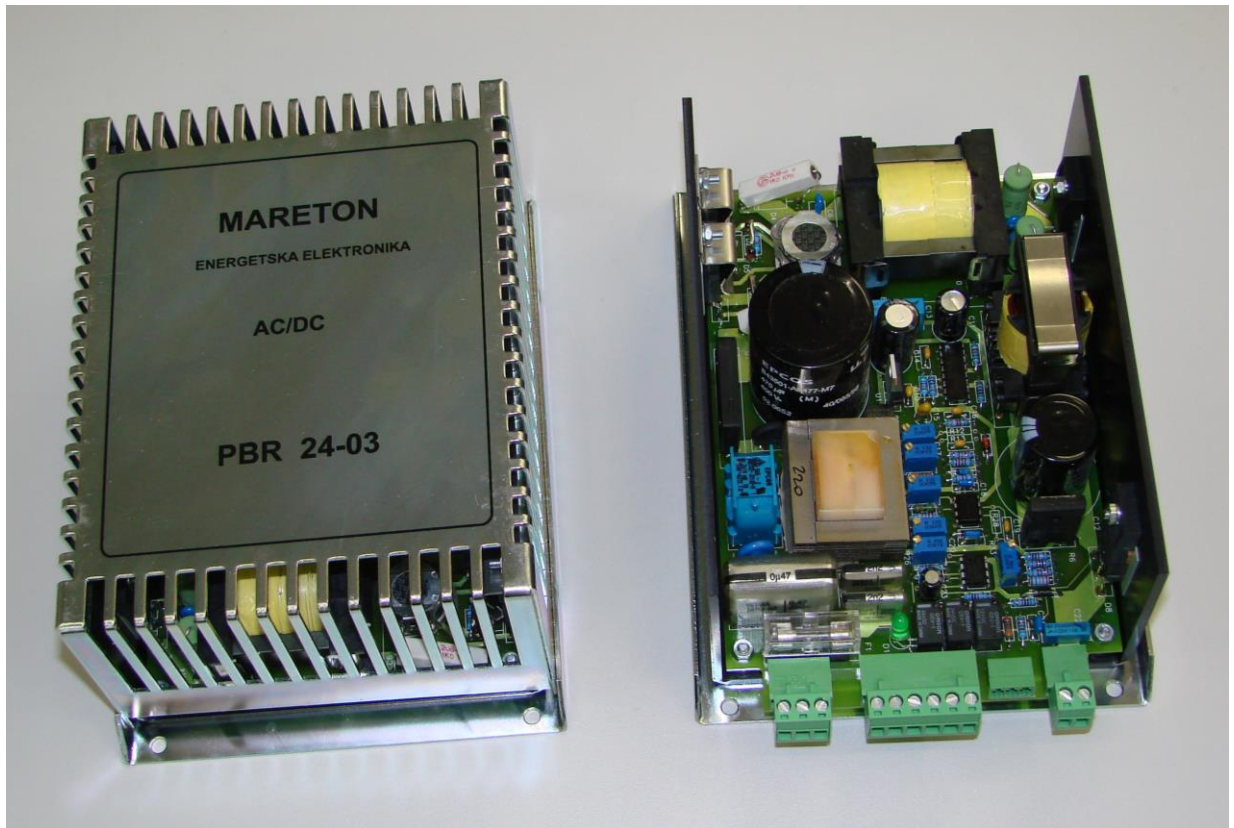
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List: 1

Listova: 2

File:

- Installation: on a vertical wall
- Fastening: with M4 screws
- Cooling: natural air circulation
- Connections (connectors): J1 mains voltage connection
  - J1.1 phase
  - J1.2 neutral line
  - J1.3 grounding
- J2 signals (relay contacts)
  - J2.1 battery undervoltage, supply contact
  - J2.2 battery undervoltage, closed contact
  - J2.3 rectifier failure, supply contact
  - J2.4 rectifier failure, contact still
  - J2.5 mains failure, supply contact
  - J2.6 mains failure, static contact
- J3 temperature probe
- J4 output voltage (consumer and battery)
  - J4.1 "minus" pole
  - J4.2 "plus" pole



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