

RECTIFIER – BATTERY CHARGER, Type “PBR 48 – 24 – 12”, Mareton
THREE OUTPUT VOLTAGES, 200 W, HEAVY DUTY,
TEMPERATURE REGULATED BATTERY VOLTAGE

Input voltage: 230 V, 50Hz

Input voltage deviation: 180V to 260V

Output 1 – battery charger

Output voltage: 48 VDC, nominal,
54.4 V at 20°C, real

Output voltage stability: $\pm 1\%$

Voltage regulation by temperature: $-3.5\text{mV} / ^\circ\text{C} / \text{cell}$

Thermoprobe: electronic, analog

Output characteristic: IU

Output current: 2 A

Output 2

Input voltage: 48 VDC (output 1 or battery)
Output voltage: 24 VDC - 1 A

Output 3

Input voltage: 48 VDC (output 1 or battery)
Output voltage: 12 V – 7 A (occasionally)

Design: forward + 2 x step down

Operating frequency: 85 kHz

Input protection: overvoltage, overvoltage
Undervoltage, overcurrent

Output protection: overvoltage
overcurrent

Remote announcements, digital: failure

Ambient temperature during operation: -25°C to $+55^\circ\text{C}$

Dimensions (W x D x H): 184 mm x 180 mm x 82 mm

Created: Štetić		Reviewed: Hlušička		Approved: Štetić	
MARETON POWER ELECTRONIC ZAGREB - CROATIA	VOLTAGE RECTIFIER & BATTERY CHARGER TYPE: PBR 48 – 24 – 12, MARETON		Rev: 0	Dat	April 2022.
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Hole grid for mounting: 163 (with connectors) x 170 mm / Ø4.5 mm

Connections: row clamps

Connection points:

X1 – network, 230 V, 50 Hz

X1.1 L

X1.2 N

X1.3 Pe

X2 – signaling

X2.1 – X2.2 battery undervoltage

X2.3 – X2.4 rectifier failure

X2.5 – X2.6 network failure

X3 – thermoprobe

X4 – output 48 V

X4.1 + pole

X4.2 – pole

X5 – output 24 V

X5.1 + pole

X5.2 – pole

X6 – output 12 V

X6.1 + pole

X6.2 – pole

