

ECO-PS2400W - EU 230 V / 50 Hz

PVShop catalogue reference: PVS-PS2400-EU

Electrical and physical specifications

Manufacturer-stated specifications for the exact EU version. Reviewed on 30 September 2026; not independently laboratory tested by PVShop.

Manufacturer brand	ECO-WORTHY
Manufacturer model / range	ECO-PS2400W - EU 230 V / 50 Hz
PVShop catalogue reference	PVS-PS2400-EU
Cell chemistry	LiFePO4
Nominal voltage	51.2 V
Rated capacity	40 Ah
Rated energy	2048 Wh
Continuous AC output power	2400 W
Peak AC output power	4800 W
AC output voltage	230 V
AC output frequency	50 Hz
AC waveform	Pure sine wave
Maximum solar input power	1200 W
Weight	23.5 kg
Dimensions (L x W x H)	465 x 260 x 295 mm

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Operating limits and interfaces

Battery energy tolerance	2048 Wh $\pm$ 5%; supplied model sheet
AC charging input	196 to 264 V AC; up to 1500 W
Solar charging input	16 to 100 V DC; 25 A; up to 1200 W
Vehicle charging input	12 to 32 V DC; up to 320 W
AC outlets	3 outlets; 2400 W combined continuous rating
USB-A outputs	2 x QC, up to 18 W each
USB-C outputs	1 x PD 100 W and 1 x PD 27 W
DC outputs	13.8 V; vehicle socket up to 12 A; two DC5521 ports up to 5 A each; 12 A shared total
UPS bypass	Up to 1800 W; differs from the inverter continuous rating
Monitoring	Bluetooth and WiFi
Charge temperature	0 to 40 °C
Discharge temperature	-10 to 40 °C
Pass-through charging	Supported
Cycle life	3500 cycles at SOH at least 70%; supplier-stated
LED light	3 W; adjustable levels and SOS mode

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Installation and application

Use the EU 230 V / 50 Hz outlets. Keep all connected AC loads within the combined 2400 W continuous rating. Check solar-panel voltage in cold conditions against the documented input limit. Use the specified charging inputs and supplied compatible leads.

Evidence and revision notes

This sheet covers the EU 230 V / 50 Hz version only. US 120 V units and solar-panel bundles are not substituted.

The supplied sheet and EU page agree on 465 x 260 x 295 mm; the linked manual contains a conflicting 546 mm entry. The agreeing EU-page / sheet dimensions are used.

4800 W is a peak rating; its duration is not documented. Do not use it as the continuous load rating. Solar panel open-circuit voltage in cold conditions must stay within the input limit.

Document scope

PVShop retailer edition retaining the original ECO-WORTHY brand and model identity. Manufacturer source plots are included unchanged where supplied. They are not independently measured results, and no raw laboratory test report was supplied. The current EU manual remains the installation reference.

PVShop technical support: support@pvshop.store