

EnergyTrek 12V 314Ah LiFePO4 Battery - LED

PVShop catalogue reference: PVS-LFP-12314-LED

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	EnergyTrek 12V 314Ah LiFePO4 Battery - LED
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Cell chemistry	LiFePO4
Nominal voltage	12.8 V
Rated capacity	314 Ah
Rated energy	4019 Wh
BMS continuous current	200 A
Maximum continuous charge current	200 A
Maximum continuous discharge current	200 A
Peak discharge current	240 A
Peak discharge duration	10 s
Charge voltage / published maximum	14.6 V
Discharge cutoff voltage	10 V
Dimensions (L x W x H)	414 x 215 x 260 mm
Weight	27.4 kg

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Operating limits and interfaces

Bluetooth	Yes
Monitoring	SOC / status LEDs and alarm buzzer
Terminals	M8
Charge temperature	0 to 55 °C
Discharge temperature	-20 to 55 °C
Expansion	Up to 4 in series and 4 in parallel; use matched batteries

Installation and application

Use a compatible LiFePO4 charger or controller, correct polarity, suitably rated cables and circuit protection. Verify system voltage, current and operating temperature before installation. Protection thresholds are not normal operating settings. Follow the model-specific installation manual.

Evidence and revision notes

The EU page specifies 157 A standard current; the supplied August family sheet specifies 150 A. A single recommended-current rating is therefore not published.

The supplied family sheet mentions self-heating, whereas this EU version is described as low-temperature protection. Self-heating is not claimed.

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

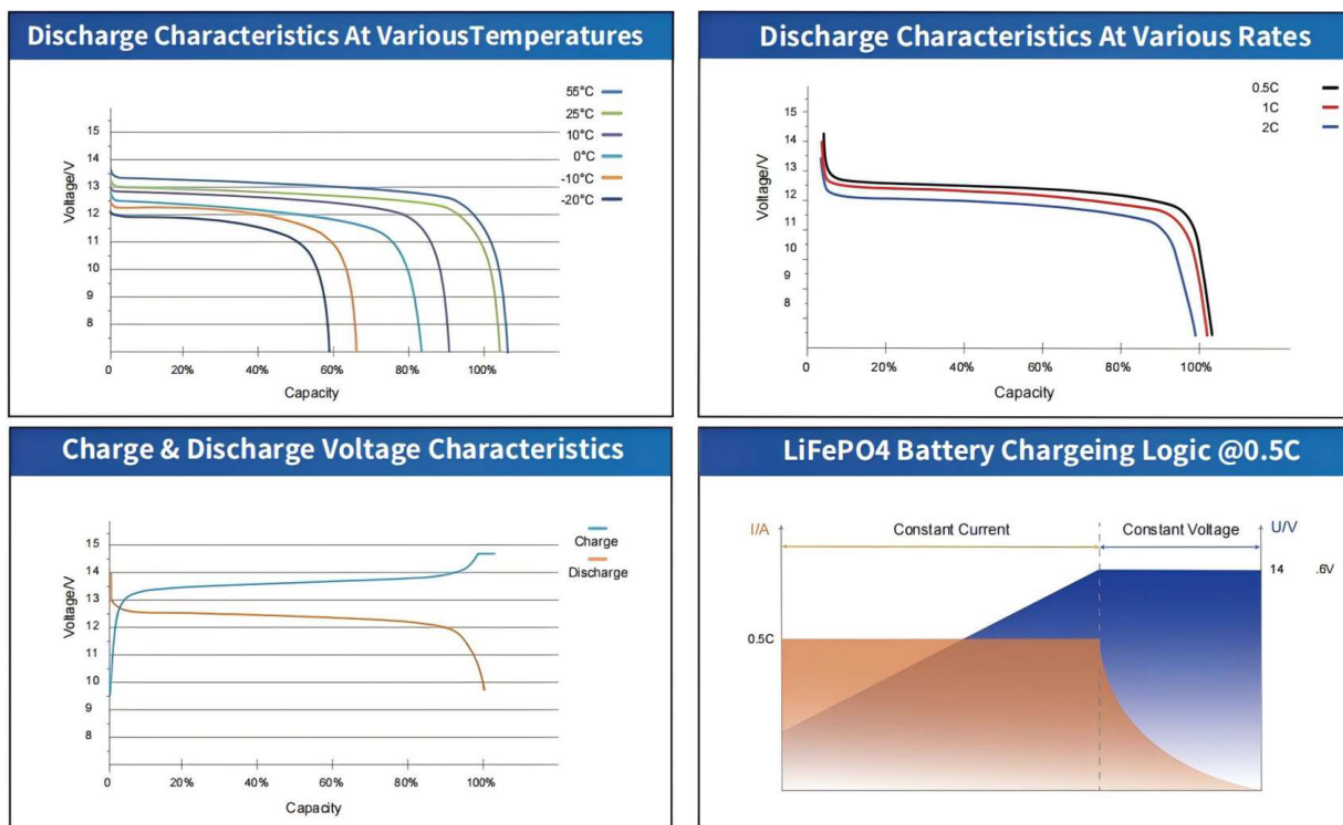
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Original manufacturer reference graphs

Supplier 12 V 300/314 Ah family plots. The charging-logic panel contains an ambiguous voltage annotation. It is reproduced unchanged; use the reviewed 14.6 V pack charge limit, not that annotation, for product selection.

Source: 12.8V 314AH PDF 20260826.pdf / page 3. All four source panels, axes, legends and curve shapes are retained. No values were digitized, inferred or redrawn.



Panels: discharge at various temperatures; discharge at various rates; charge and discharge voltage characteristics; LiFePO4 charging logic at 0.5C. Temperature curves concern discharge. Charging must stay within the model-specific temperature range in this datasheet.