

48V 314Ah Movable Battery / ECO-LFP-4831400

PVShop catalogue reference: PVS-LFP-48314-MOBILE

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	48V 314Ah Movable Battery / ECO-LFP-4831400
PVShop catalogue reference	PVS-LFP-48314-MOBILE
Cell chemistry	LiFePO4
Nominal voltage	51.2 V
Rated capacity	314 Ah
Rated energy	16080 Wh
BMS continuous current	200 A
Charge voltage / published maximum	58.4 V
Discharge cutoff voltage	40 V
Weight	133 kg

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Operating limits and interfaces

Wireless monitoring	Bluetooth and WiFi
Communication	CAN / RS485 / RS232
Display	7-inch colour display
Mobility	Four wheels; stationary energy-storage installation
Charge temperature	0 to 55 °C
Discharge temperature	-20 to 55 °C
Expansion	Up to 15 batteries in parallel; no series connection

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 lists 150 A maximum current, while the source sheet and linked manual describe 200 A with conditions. Maximum continuous charge / discharge current is left undocumented until this discrepancy is resolved. The 200 A BMS figure is a separate rating.

Published height and enclosure dimensions vary across the EU listing, the supplied sheet and the installation drawing. Overall dimensions are omitted pending a revision-specific drawing.

The supplied Intertek authorization names ECO-LFP4831400 and ECO-LFP4831402 and ANSI/CAN/UL 1973:2022. An unchanged copy is included in the appendix. It is an authorization to mark, not a laboratory test report. Applicability to the exact delivered EU revision must be confirmed with the manufacturer.

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

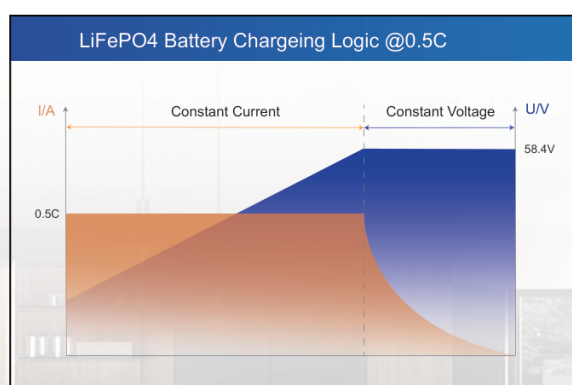
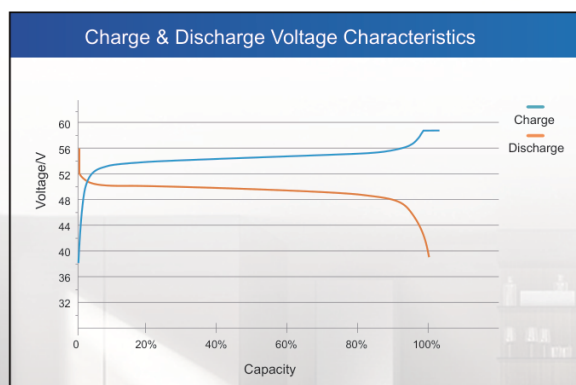
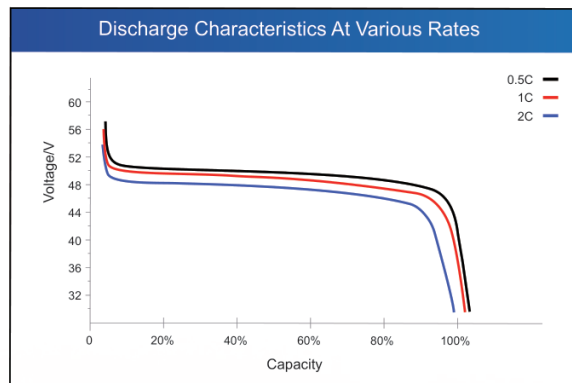
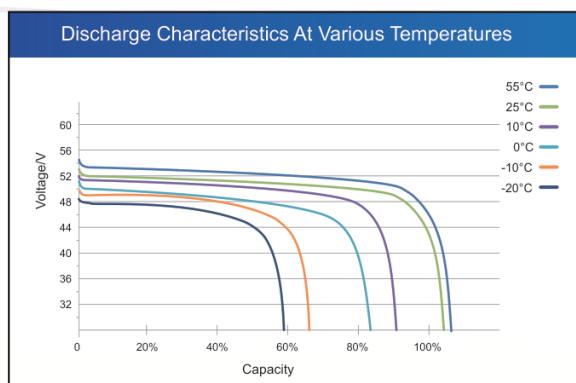
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Original manufacturer reference graphs

Supplier 48 V 314 Ah family plots. Maximum current and dimensional discrepancies remain unresolved. Curves do not resolve those discrepancies or establish safe continuous current.

Source: 51.2V314AH data sheet.pdf / page 2. 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.

Unchanged manufacturer certificate appendix

The following original Intertek authorization is supplied evidence for the named ECO-WORTHY manufacturer models. Its applicant, manufacturer, model list, dates, report number and mark have not been altered. It is not a test report for a PVShop-branded product.

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

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545 East Algonquin Road, Arlington Heights, IL 60005
Telephone 800-345-3851 or 847-439-5667 Fax 312-283-1672

Standard(s): Batteries for Use in Stationary and Motive Auxiliary Power Applications [ANSI/CAN/UL 1973:2022 Ed.3]

Product: Rechargeable Li-ion Battery

Brand Name:



Models: ECO-LFP4831400, ECO-LFP4831402