

Power Pack LiFePO4 15S 48V 300Ah Prismatic LFP Battery Pack

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack LiFePO4 15S 48V 300Ah Prismatic LFP Battery Pack Battery Chemistry Lithium Iron Phosphate (LFP) Cell Type Prismatic Configuration 15S1P Number of Cells 15 Cell Capacity 300Ah per cell Nominal Cell Voltage 3.2V Nominal Pack Voltage 48.0V Maximum Charging Voltage 54.0V at 3.6V per cell Rated Capacity 300Ah / 300,000mAh Nominal Energy 14,400Wh / 14.4kWh BMS To be confirmed according to selected configuration Charging Method CC/CV with a compatible 15S LiFePO4 charger Dimensions To be confirmed based on cell model and enclosure Weight To be confirmed based on cell model and enclosure Connector Type Selected according to current requirements Brand Lion Battery

TECHNICAL SPECIFICATIONS

Nominal Voltage: 48V
Capacity: 300Ah
Energy: 400Wh
Chemistry: LFP
Charging Voltage: 54.0V
Product Category: 15 Cell 48 LiFePo4 (LFP) Battery Pack (48V-55.5)

PRODUCT DESCRIPTION

Power Pack LiFePO4 15S 48V 300Ah Prismatic LFP Battery Pack The Power Pack LiFePO4 15S 48V 300Ah Prismatic LFP Battery Pack is a high-capacity rechargeable battery designed for solar energy storage, backup power, industrial equipment, and compatible 48V-class energy systems. Using lithium iron phosphate (LiFePO4) chemistry, this battery provides a nominal voltage of 48V and a capacity of 300Ah, delivering approximately 14.4kWh of nominal energy. The battery uses 15 prismatic LiFePO4 cells rated at 300Ah each, connected in series in a 15S1P configuration. A compatible 15S LiFePO4 Battery Management System (BMS) can be selected according to the system's charging and discharge requirements. Key Features Battery Chemistry: LiFePO4 (Lithium Iron Phosphate) Nominal Voltage: 48.0V Battery Capacity: 300Ah / 300,000mAh Nominal Energy: 14,400Wh (14.4kWh) Configuration: 15S1P Cell Type: Prismatic LFP cells Rechargeable design for energy storage applications BMS configuration options based on application requirements Suitable for compatible solar, inverter, and industrial systems Custom cables, connectors, and enclosure options Battery Configuration 15S1P: 15 prismatic cells connected in series. Nominal voltage: 15 x3.2V = 48.0V. Capacity: 300Ah. Nominal energy: 48.0V x300Ah = 14,400Wh (14.4kWh). BMS Protection A compatible 15S LiFePO4 BMS is recommended to monitor the individual cell voltages and provide protection against overcharging, over-discharging, overcurrent, and short circuits, depending on the selected model. The BMS must be rated for the intended continuous and peak current. High-capacity batteries also require appropriately sized cables, busbars, fuses, and connectors.

PRODUCT DATASHEET

Applications Solar energy storage systems Home and commercial backup power Compatible
48V-class inverters Industrial energy storage systems Telecom and DC backup applications
Renewable energy installations Custom high-capacity battery projects Package Includes 15S
48V 300Ah prismatic LiFePO4 battery pack BMS, if included in the selected configuration
Power cables and connectors as specified in the order Enclosure, if specified Important
Charging Information Use a charger or inverter-charger specifically configured for a 15S
LiFePO4 battery. The typical maximum charging voltage is 54.0V, subject to the cell
manufacturer's specifications. Before installation, confirm the inverter's compatible
battery voltage range, charging profile, BMS communication requirements, and current limits.
Not every device marketed as a 48V battery system is compatible with a 15S LFP pack.