

Power Pack LiFePO4 23S 72V 30Ah 23S5P 3C With BMS LFP Battery Pack

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack LiFePO4 23S 72V 30Ah Battery Pack Battery Chemistry Lithium Iron Phosphate (LiFePO4 / LFP) Battery Configuration 23S5P Total Number of Cells 115, assuming 6Ah cells Nominal Pack Voltage 73.6V Maximum Charging Voltage 82.8V at 3.6V per cell Battery Capacity 30Ah / 30,000mAh Energy Capacity 2,208Wh Specified Discharge Rate 3C Theoretical Discharge Current 90A BMS Included; current rating to be confirmed Cycle Life Depends on cell specifications and operating conditions Dimensions Approx. 400 ×300 × 220mm; estimate only Weight Approx. 20 26kg; estimate only Connector Type To be confirmed Charging Method Compatible LiFePO4 CC/CV charger Applications Compatible EVs, industrial equipment, and custom battery systems

TECHNICAL SPECIFICATIONS

Nominal Voltage: 72V
Capacity: 30Ah
Energy: 208Wh
Chemistry: LFP
Maximum / BMS Current: 90A
Charging Voltage: 82.8V
Product Category: 23 Cell 72 LiFePo4 (LFP) Battery Pack (74V-84)

PRODUCT DESCRIPTION

Power Pack LiFePO4 23S 72V 30Ah 23S5P 3C With BMS LFP Battery Pack The Power Pack LiFePO4 23S 72V 30Ah 3C Battery Pack with BMS is a rechargeable lithium iron phosphate battery designed for high-capacity, high-voltage battery applications. Its 23S5P configuration provides a 30Ah capacity, assuming 6Ah cells, with a total of 115 cells. With a nominal voltage of 73.6V and energy capacity of 2,208Wh, this LFP battery pack is suitable for compatible electric vehicles, industrial equipment, robotics, and custom battery-powered systems. The integrated Battery Management System (BMS) helps monitor and protect the battery, with specific protection functions depending on the selected BMS model. The specified 3C discharge rate corresponds to a theoretical current of 90A; actual continuous output depends on the cells, BMS, wiring, connectors, and thermal conditions. Key Features Battery Chemistry: LiFePO4 (Lithium Iron Phosphate) Voltage Class: 72V-class battery pack Nominal Voltage: 73.6V Capacity: 30Ah / 30,000mAh Configuration: 23S5P Total Cells: 115, assuming 6Ah cells Energy Capacity: 2,208Wh Specified Discharge Rate: 3C Theoretical 3C Discharge Current: 90A BMS: Included Rechargeable: Yes Custom Options: Connector, wiring, enclosure, and BMS rating subject to confirmation Battery Configuration Parameter Details Series Configuration 23S Parallel Configuration 5P Total Cell Count 23 ×5 = 115 cells Assumed Cell Capacity 6Ah Pack Capacity 5 ×6Ah = 30Ah Nominal Cell Voltage 3.2V Nominal

LION BATTERY

PRODUCT DATASHEET

Pack Voltage $23 \times 3.2V = 73.6V$ Maximum Cell Voltage 3.6V, subject to cell specifications
Maximum Pack Voltage $23 \times 3.6V = 82.8V$ Total Energy $73.6V \times 30Ah = 2,208Wh$ 3C Discharge
Configuration Specification Details Battery Capacity 30Ah Discharge Rate 3C Theoretical
Discharge Current $30Ah \times 3 = 90A$ Approximate Power at Nominal Voltage 6,624W at 90A
Continuous Discharge Capability Must be confirmed against cell, BMS, wiring, and connector
ratings Note: The calculated 90A is the theoretical current at 3C, not a guaranteed
continuous discharge rating. Verify the selected cells and BMS can safely support the
intended load. BMS Protection The battery pack includes a Battery Management System (BMS).
Depending on the selected model, protection and monitoring functions may include: Overcharge
protection Over-discharge protection Overcurrent protection Short-circuit protection Cell
voltage monitoring and balancing Temperature monitoring, if supported Confirm the BMS
current rating and features before connecting high-current loads. Connector & Charging
Requirements Required charger: 23S LiFePO4-compatible charger. Maximum charging voltage:
82.8V, provided the selected cells are rated for 3.6V per cell. Do not use an 84V charger
intended for a 20S NMC lithium-ion pack. Connector and wire gauge must be selected according
to the operating current. Check polarity and connector compatibility before use.
Applications Compatible electric vehicles and custom EV projects Industrial and mobile
equipment Robotics and automation systems Custom high-voltage battery-powered equipment
Special-purpose battery systems Compatible energy storage applications Always verify the
equipment's input-voltage range and current requirements before installation. Advantages
High-capacity 30Ah battery configuration LiFePO4 chemistry for stable battery operation
Integrated BMS for monitoring and protection 2.208kWh nominal energy capacity 23S5P
configuration for applications requiring a 72V-class LFP pack Custom connector, cable, and
enclosure options can be discussed Package Includes 1 x Power Pack LiFePO4 23S 72V 30Ah
battery pack 1 x BMS installed in the battery pack