

Power Pack LiFePO4 23S 72V 48Ah 23S8P 3C With BMS LFP Battery Pack

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack LiFePO4 23S 72V 48Ah Battery Pack Battery Chemistry Lithium Iron Phosphate (LiFePO4 / LFP) Battery Configuration 23S8P Total Number of Cells 184, assuming 6Ah cells Nominal Pack Voltage 73.6V Maximum Charging Voltage 82.8V at 3.6V per cell Battery Capacity 48Ah / 48,000mAh Energy Capacity 3,532.8Wh Specified Discharge Rate 3C Theoretical Discharge Current 144A BMS Included; current rating to be confirmed Cycle Life Depends on cell specifications and operating conditions Dimensions Approx. 450 ×350 ×280mm; estimate only Weight Approx. 28 35kg; estimate only Connector Type To be confirmed Charging Method Compatible LiFePO4 CC/CV charger Applications Compatible EVs, industrial equipment, robotics, and custom battery systems

TECHNICAL SPECIFICATIONS

|                                                                  |
|------------------------------------------------------------------|
| Nominal Voltage: 72V                                             |
| Capacity: 48Ah                                                   |
| Energy: 532.8Wh                                                  |
| Chemistry: LFP                                                   |
| Maximum / BMS Current: 144A                                      |
| Charging Voltage: 82.8V                                          |
| Product Category: 23 Cell 72 LiFePo4 (LFP) Battery Pack (74V-84) |

PRODUCT DESCRIPTION

Power Pack LiFePO4 23S 72V 48Ah 23S8P 3C With BMS LFP Battery Pack The Power Pack LiFePO4 23S 72V 48Ah 3C Battery Pack with BMS is a high-capacity rechargeable lithium iron phosphate (LFP) battery designed for compatible electric vehicles, industrial equipment, robotics, and custom battery-powered applications. Built with a 23S8P configuration, this battery pack contains 184 cells, assuming 6Ah cells. It delivers a nominal voltage of 73.6V, a capacity of 48Ah, and approximately 3,532.8Wh of energy. The integrated Battery Management System (BMS) helps monitor and protect the battery, depending on the selected BMS model and its specifications. The specified 3C discharge rate corresponds to a theoretical current of 144A. Actual continuous discharge capability depends on the cell ratings, BMS, wiring, connectors, and thermal management. Key Features Battery Chemistry: LiFePO4 (Lithium Iron Phosphate) Voltage Class: 72V-class battery pack Nominal Voltage: 73.6V Capacity: 48Ah / 48,000mAh Configuration: 23S8P Total Cell Count: 184 cells, assuming 6Ah cells Energy Capacity: 3,532.8Wh Specified Discharge Rate: 3C Theoretical 3C Discharge Current: 144A BMS: Included Rechargeable: Yes Customization: Connector, cable, enclosure, and BMS rating can be confirmed according to application requirements. Battery Configuration Parameter Details Series Configuration 23S Parallel Configuration 8P Total Cell Count 23 ×8 = 184 cells Assumed Cell Capacity 6Ah Pack Capacity 8 ×6Ah = 48Ah 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  $73.6V \times 48Ah = 3,532.8Wh$  3C Discharge

Configuration Specification Details Battery Capacity 48Ah Discharge Rate 3C Theoretical

Discharge Current  $48Ah \times 3 = 144A$  Approximate Power at Nominal Voltage 10,598.4W at 144A

Continuous Discharge Capability Must be verified against cell, BMS, wiring, connector, and

cooling ratings Important: The calculated 144A is the theoretical current at 3C, not a

guaranteed continuous output rating. Confirm that all battery components can safely support

the required current. BMS Protection The battery pack includes a Battery Management System

(BMS). Depending on the selected model, its features may include: Overcharge protection

Over-discharge protection Overcurrent protection Short-circuit protection Cell voltage

monitoring and balancing Temperature monitoring, if supported The BMS current rating and

protection features should be confirmed before connecting high-current equipment. Connector

& Charging Requirements Charger type: 23S LiFePO4-compatible CC/CV 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 battery. Select wire gauge and connectors

according to the expected operating current. Verify connector polarity and compatibility

before use. Applications Compatible electric vehicles and custom EV projects Industrial and

mobile equipment Robotics and automation systems High-voltage battery-powered machinery

Special-purpose battery applications Compatible energy storage systems Check the equipment's

operating voltage range and current requirements before installation. Advantages

High-capacity 48Ah battery pack LiFePO4 chemistry for stable battery operation Integrated

BMS for battery monitoring and protection Approximately 3.53kWh nominal energy capacity

23S8P configuration for compatible 72V-class applications Custom connector, wiring, and

enclosure options available upon confirmation Package Includes 1 ×Power Pack LiFePO4 23S

72V 48Ah battery pack 1 ×BMS installed in the battery pack