

Power Pack LiFePO4 12S 36V 150Ah 3C Discharge LFP Battery Pack

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack LiFePO4 12S 36V 150Ah 3C Discharge LFP Battery Pack Battery Chemistry LiFePO4 (Lithium Iron Phosphate) Battery Type Rechargeable LFP Battery Configuration 12S Number of Cells Depends on selected cell capacity Nominal Cell Voltage 3.2V Nominal Pack Voltage 38.4V Maximum Charge Voltage 43.2V Pack Capacity 150Ah Energy Capacity Approx. 5760Wh / 5.76kWh Discharge Rating 3C Theoretical 3C Current Up to 450A BMS 12S LiFePO4 BMS; current rating according to application Dimensions Approx. 200 × 550 ×150 mm* Weight Approx. 50 60 kg* Connector High-current connector / Custom option Wire Length Customized Wire Customized according to application

TECHNICAL SPECIFICATIONS

Nominal Voltage: 36V
Capacity: 150Ah
Energy: 5760Wh
Chemistry: LFP
Maximum / BMS Current: 450A
Charging Voltage: 43.2V
Product Category: 12 Cell 36 LiFePo4 (LFP) Battery Pack (38.4V-43.8V)

PRODUCT DESCRIPTION

Power Pack LiFePO4 12S 36V 150Ah 3C Discharge LFP Battery Pack The Power Pack LiFePO4 12S 36V 150Ah 3C Discharge LFP Battery Pack is a high-capacity rechargeable lithium iron phosphate battery designed for energy storage, electric vehicles, industrial equipment, backup power, and other high-power applications. This 12S LiFePO4 battery pack provides a nominal voltage of 38.4V and a maximum charging voltage of 43.2V. With a 150Ah capacity, it provides approximately 5760Wh (5.76kWh) of nominal energy. With a 3C discharge specification, the theoretical discharge current is up to 450A. Actual continuous discharge capability depends on the selected LFP cells, BMS, busbars, cables, connectors, and thermal management. Key Features LiFePO4 / LFP rechargeable battery chemistry 12S configuration 36V-class battery pack 150Ah capacity Approx. 5.76kWh energy capacity 3C discharge specification Theoretical 3C current up to 450A High thermal stability Long cycle-life chemistry Suitable for high-capacity energy storage Custom BMS and connector options available Suitable for OEM and industrial applications 12S Battery Configuration The battery uses a 12S configuration, meaning 12 cell groups are connected in series. Series configuration: 12S Nominal cell voltage: 3.2V Nominal pack voltage: 38.4V Maximum charge voltage: 43.2V Pack capacity: 150Ah The exact parallel configuration depends on the selected cell capacity. Cell Capacity Configuration Pack Capacity 5Ah 12S30P 150Ah 7.5Ah 12S20P 150Ah 10Ah 12S15P 150Ah 15Ah 12S10P 150Ah 25Ah 12S6P 150Ah 30Ah 12S5P 150Ah 50Ah 12S3P 150Ah 75Ah

LION BATTERY

PRODUCT DATASHEET

12S2P 150Ah 150Ah 12S1P 150Ah 3C Discharge Configuration For a 150Ah battery: 150Ah $\times$ 3C = 450A The 450A figure is the theoretical 3C discharge current. It should not automatically be treated as the continuous output capability of the complete battery. Actual current capability depends on: LFP cell discharge rating BMS current rating Busbar design Cable size Connector rating Battery temperature Thermal management BMS Protection A suitable 12S LiFePO4 BMS can provide: Overcharge protection Over-discharge protection Over-current protection Short-circuit protection Cell voltage monitoring Cell balancing Temperature protection Low-temperature charging protection where supported For this high-capacity pack, the BMS should be selected according to the required continuous and peak current. Connector & Wire High-current connector recommended Connector type can be customized Cable size selected according to application current Custom wire length available Heavy-duty terminals can be provided for high-current applications Applications Suitable for: Electric vehicles E-bike and electric scooter systems Solar energy storage UPS and backup power Industrial equipment Robotics and automation AGV / AMR systems Portable power systems DC power systems High-power energy storage Custom OEM battery packs Prototype and engineering projects Advantages High 150Ah capacity Approx. 5.76kWh energy storage LiFePO4 chemistry High thermal stability Long service life Rechargeable design High theoretical discharge capability Custom configuration available Suitable for OEM and bulk requirements Package Includes 1 $\times$ 12S LiFePO4 Battery Pack 12S LiFePO4 BMS High-current output terminals/connectors Battery insulation and protection materials