

Power Pack LiFePO4 12S 36V 75000mAh 3C Discharge LFP Battery Pa

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack LiFePO4 12S 36V 75000mAh 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 75Ah /
75000mAh Energy Capacity Approx. 2880Wh Discharge Rating 3C Theoretical 3C Current Up to
225A BMS 12S LiFePO4 BMS; current rating according to application Dimensions Approx. 150 ×
500 ×70 mm* Weight Approx. 9.5 10.5 kg* Connector 5mm DC Jack / 2-Pin JST / Custom option
Wire Length Approx. 5cm Wire Customized length available

TECHNICAL SPECIFICATIONS

Nominal Voltage: 36V
Capacity: 75000mAh
Energy: 2880Wh
Chemistry: LFP
Maximum / BMS Current: 225A
Charging Voltage: 43.2V
Product Category: 12 Cell 36 LiFePo4 (LFP) Battery Pack (38.4V-43.8V)

PRODUCT DESCRIPTION

Power Pack LiFePO4 12S 36V 75000mAh 3C Discharge LFP Battery Pack The Power Pack LiFePO4 12S
36V 75000mAh 3C Discharge LFP Battery Pack is a high-capacity rechargeable lithium iron
phosphate battery designed for applications requiring reliable energy storage, high
discharge capability, and long service life. This battery uses LiFePO4 (LFP) chemistry with
a 12S configuration, providing a 38.4V nominal voltage and approximately 43.2V maximum
charging voltage. With a specified 75Ah capacity, the pack delivers approximately 2880Wh
(2.88kWh) of nominal energy. The 3C discharge specification gives a theoretical maximum
discharge current of up to 225A, subject to the actual cells, BMS, wiring, connectors, and
thermal design. Key Features LiFePO4 / LFP rechargeable battery chemistry 12S battery
configuration 36V-class battery pack 75Ah / 75000mAh capacity Approx. 2880Wh energy capacity
3C discharge specification Theoretical 3C current up to 225A High thermal stability Long
cycle-life chemistry Suitable for high-capacity power applications Custom BMS and connector
options available Suitable for OEM, industrial and bulk applications 12S Battery
Configuration A 12S LFP battery consists of 12 series-connected cell groups. Series
configuration: 12S Nominal cell voltage: 3.2V Nominal pack voltage: 12 ×3.2V = 38.4V
Maximum charge voltage: 12 ×3.6V = 43.2V Required pack capacity: 75Ah The exact parallel
configuration (P) depends on the Ah rating of the individual cells. For example: 6Ah cells
-> approximately 12P gives 72Ah 6.25Ah cells -> 12P gives 75Ah 7.5Ah cells -> 10P gives 75Ah

LION BATTERY

PRODUCT DATASHEET

15Ah cells -> 5P gives 75Ah 25Ah cells -> 3P gives 75Ah 75Ah cells -> 1P gives 75Ah

Therefore, P cannot be fixed from 75Ah alone without knowing the individual cell capacity.

3C Discharge The theoretical 3C current for a 75Ah pack is: $75\text{Ah} \times 3\text{C} = 225\text{A}$ This does not automatically mean the complete battery can continuously deliver 225A. Actual continuous

discharge depends on: Cell discharge rating BMS current rating Busbars/nickel connections

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 The BMS should be selected

according to the application's required continuous and peak current. Connector & Wire

Standard connector options available 5mm DC Jack / 2-Pin JST option Approx. 5cm standard

wire Custom wire length available High-current connector options available for high-power

applications Applications This high-capacity LFP battery pack is 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 Custom OEM battery packs Prototype and engineering projects High-power energy

storage systems Advantages High 75Ah capacity Approximately 2.88kWh energy storage LiFePO4

chemistry High thermal stability Long service life Rechargeable design Suitable for

high-current applications Custom pack configurations available Suitable for OEM and bulk

requirements Package Includes 1 $\times$ 12S LiFePO4 Battery Pack 12S LiFePO4 BMS Output

wires/connectors as selected Battery insulation and protection materials