

Power Pack LiFePO4 12S 36V 36000mAh 12S6P 3C Discharge LFP Batt

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack LiFePO4 12S 36V 36000mAh 12S6P 3C Discharge

LFP Battery Pack Battery Chemistry LiFePO4 (Lithium Iron Phosphate) Cell Type LiFePO4

Configuration 12S6P Dimensions / Weight Approx. 150 ×240 ×70 mm / 4.8 5.2 kg* Cell

Capacity 6000mAh Number of Cells 72 Cells Nominal Cell Voltage 3.2V Nominal Pack Voltage

38.4V Maximum Charge Voltage 43.2V Pack Capacity 36Ah / 36,000mAh Energy Capacity Approx.

1,382.4Wh Cell Discharge Rating 3C Theoretical 3C Current 108A BMS 12S LiFePO4 BMS, selected

according to application Battery Type Rechargeable Connector Customised according to

application Wire Length Customised Wire Customised according to current requirement

TECHNICAL SPECIFICATIONS

Nominal Voltage: 36V
Capacity: 36000mAh
Energy: 382.4Wh
Chemistry: LFP
Maximum / BMS Current: 108A
Charging Voltage: 43.2V
Product Category: 12 Cell 36 LiFePo4 (LFP) Battery Pack (38.4V-43.8V)

PRODUCT DESCRIPTION

Power Pack LiFePO4 12S 36V 36000mAh 12S6P 3C Discharge LFP Battery Pack The Power Pack

LiFePO4 12S 36V 36000mAh 12S6P 3C Discharge LFP Battery Pack is a high-capacity rechargeable

lithium iron phosphate battery designed for applications requiring reliable energy storage

and high discharge capability. The pack uses a 12S6P configuration, providing 36Ah capacity

with a nominal voltage of approximately 38.4V. With a 3C discharge rating, the theoretical

maximum discharge current based on cell capacity is approximately 108A, subject to the

actual cell and BMS specifications. LiFePO4 chemistry offers good thermal stability, long

cycle life and suitability for demanding applications such as EVs, robotics, solar systems,

portable power equipment and custom battery packs. Key Features Battery Chemistry: LiFePO4

(LFP) Configuration: 12S6P Nominal Voltage: 38.4V Capacity: 36Ah / 36,000mAh Maximum Charge

Voltage: 43.2V Discharge Rating: 3C Theoretical 3C Current: 108A Rechargeable lithium

battery pack High energy capacity Good thermal stability Suitable for high-power

applications Custom connector and enclosure options available 12S6P Battery Configuration

This battery pack uses 12S6P configuration: 12 cells/groups connected in series 6 cells

connected in parallel per series group Total cells: 12 ×6 = 72 cells Individual cell

capacity: 6Ah Pack capacity: 6Ah ×6 = 36Ah Nominal voltage: 3.2V ×12 = 38.4V Full-charge

voltage: 3.6V ×12 = 43.2V Energy: 38.4V ×36Ah = 1,382.4Wh 3C Discharge At a 36Ah pack

capacity: 36Ah ×3C = 108A theoretical discharge current Actual continuous discharge

PRODUCT DATASHEET

capability depends on the selected cells, BMS, wiring, connectors and thermal conditions.

BMS Protection A suitable 12S LiFePO4 BMS can provide protection against: Overcharge

Over-discharge Over-current Short circuit Excessive temperature Cell voltage imbalance The

BMS current rating should be selected according to the actual application load and required

continuous/peak current. Connector & Wire The output connector and cable can be customized

according to the application. Possible connector options include: XT60 XT90 Anderson

connector DC connector Custom high-current connector For a high-current 3C application, the

wire gauge and connector must be selected according to the actual continuous and peak

current requirements. Applications This 36Ah LiFePO4 battery pack is suitable for: Electric

vehicles Electric scooters E-bikes Robotics AGV/AMR systems Portable power systems Solar

energy storage UPS systems Inverter applications Industrial equipment Custom battery packs

OEM/ODM battery projects Advantages LiFePO4 chemistry 36Ah high-capacity battery pack 12S6P

configuration Approx. 1.38kWh energy capacity 3C high-discharge design Theoretical 108A

discharge capability Good thermal stability Suitable for demanding applications Custom BMS,

connector and enclosure options Package Includes 1 ×12S6P 36Ah LiFePO4 Battery Pack 12S

LiFePO4 BMS Main power wires Output connector according to selected configuration Insulation

and battery protection materials Important Charging Information For a 12S LiFePO4 battery

pack, use a compatible charger with a maximum charging voltage appropriate for the selected

cells/BMS. For the configuration described here, the nominal voltage is 38.4V and the

maximum charging voltage is 43.2V when using a 3.6V-per-cell charging limit. Do not use a

42V charger intended for a 36V NMC/Li-ion 10S battery pack. The charger must match the

battery chemistry and series configuration.