

Power Pack LiFePO4 3S 9.6V 18000mAh 3S3P 3C With BMS LFP Batter

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack LiFePO4 3S 9.6V 18000mAh 3S3P 3C With BMS

Battery Chemistry LiFePO4 (Lithium Iron Phosphate) Battery Type Rechargeable LFP Battery

Cell Type LiFePO4 Configuration 3S3P Number of Cells 9 Cells Cell Capacity 6000mAh Nominal

Cell Voltage 3.2V Nominal Pack Voltage 9.6V Maximum Charge Voltage 10.8V Pack Capacity

18000mAh / 18Ah Energy Capacity 172.8Wh Cell Discharge Rating 3C Theoretical 1C Current 18A

Theoretical 3C Current 54A BMS 3S LiFePO4 BMS BMS Protection Overcharge, over-discharge,

over-current & short circuit Approx. Dimensions 150 ×100 ×70 mm* Approx. Weight 800 900g*

Connector 5mm DC Jack / 2-Pin JST, as required Wire Length 5cm Wire Customized Length

Available

TECHNICAL SPECIFICATIONS

Nominal Voltage: 9.6V
Capacity: 18000mAh
Energy: 172.8Wh
Chemistry: LFP
Maximum / BMS Current: 18A
Charging Voltage: 10.8V
Product Category: 3 Cell 9V LiFePo4 (LFP) Battery Pack (9.6V-10.65V)

PRODUCT DESCRIPTION

Power Pack LiFePO4 3S 9.6V 18000mAh 3S3P 3C With BMS LFP Battery Pack The Power Pack LiFePO4

3S 9.6V 18000mAh 3S3P 3C LFP Battery Pack is a rechargeable lithium iron phosphate battery

designed for applications requiring stable voltage, high safety, reliable performance, and

long service life. The pack uses a 3S3P configuration with 9 LiFePO4 cells. With

approximately 6000mAh cells, it provides 18Ah / 18,000mAh capacity, 9.6V nominal voltage,

and approximately 172.8Wh energy capacity. An integrated 3S LiFePO4 BMS provides protection

against overcharge, over-discharge, over-current, and short-circuit conditions. Key Features

LiFePO4 (Lithium Iron Phosphate) chemistry 9.6V nominal voltage 18Ah / 18,000mAh capacity

3S3P configuration 9 cells total 6000mAh cells 3C-rated cell configuration Theoretical 3C

current: 54A BMS included High thermal and chemical stability Long cycle life Rechargeable

battery design Suitable for custom power applications 3S3P Battery Configuration The battery

is assembled using 3 cells/groups in series and 3 cells in parallel: 3S = 3 ×3.2V = 9.6V

nominal 3P = 3 ×6Ah = 18Ah Total cells = 3 ×3 = 9 cells Energy = 9.6V ×18Ah = 172.8Wh 3C

LFP Configuration The cells are specified for 3C discharge. Pack capacity: 18Ah 1C

theoretical current: 18A 3C theoretical current: 54A Important: 54A is the theoretical

cell-level 3C calculation. It does not mean the completed battery can continuously deliver

54A. Actual output depends on the cells, BMS rating, busbars, wiring, connectors, and

PRODUCT DATASHEET

thermal management. BMS Protection The integrated 3S LiFePO4 BMS helps protect the battery against: Overcharge Over-discharge Over-current Short circuit Cell imbalance, depending on BMS design The BMS must be correctly matched and wired for a 3S LiFePO4 battery. Connector & Wire Connector: 5mm DC Jack / 2-Pin JST Standard wire length: 5cm Customized wire length available Connector type can be customized according to application requirements Applications Portable power equipment Robotics and automation Industrial electronics IoT and monitoring systems LED lighting Solar backup systems DIY battery projects Custom electronic equipment Small electric equipment OEM battery applications Advantages 18Ah capacity 172.8Wh energy capacity Stable 9.6V nominal output Safe LiFePO4 chemistry Excellent thermal stability Long cycle life Rechargeable design Integrated BMS protection Custom connector and wire options Suitable for OEM and custom battery packs Package Includes 1 ×3S 9.6V 18Ah LiFePO4 Battery Pack 1 ×3S LiFePO4 BMS Connecting wires Selected connector Battery pack assembly