

Power Pack LiFePO4 19S 60V 18000mAh 19S3P 3C Discharge LFP Batt

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack LiFePO4 19S 60V 18000mAh 19S3P 3C Discharge LFP Battery Pack Battery Chemistry LiFePO4 (Lithium Iron Phosphate) Battery Type Rechargeable LFP Battery Configuration 19S3P Number of Cells 57 Cells Cell Capacity 6000mAh / 6Ah Nominal Cell Voltage 3.2V Nominal Pack Voltage 60.8V Maximum Charge Voltage 68.4V Pack Capacity 18Ah / 18000mAh Energy Capacity Approx. 1094.4Wh Discharge Rating 3C Theoretical 3C Current Up to 54A BMS 19S LiFePO4 BMS; current rating according to application Dimensions Approx. 150 ×150 ×210 mm* Weight Approx. 5.0 5.8 kg* Connector 5mm DC Jack / 2-Pin JST / Custom option Wire Length Approx. 5cm Wire Customized length available

TECHNICAL SPECIFICATIONS

Nominal Voltage: 60V
Capacity: 18000mAh
Energy: 1094.4Wh
Chemistry: LFP
Maximum / BMS Current: 54A
Charging Voltage: 68.4V
Product Category: 19 Cell 60V LiFePo4 (LFP) Battery Pack (61V-69)

PRODUCT DESCRIPTION

Power Pack LiFePO4 19S 60V 18000mAh 19S3P 3C Discharge LFP Battery Pack The Power Pack LiFePO4 19S 60V 18000mAh 19S3P 3C Discharge LFP Battery Pack is a rechargeable lithium iron phosphate battery designed for 60V-class electric vehicles, e-bikes, robotics, industrial equipment, backup power, and custom energy applications. This battery uses a 19S3P configuration, consisting of 57 LiFePO4 cells. Using 6000mAh cells in a 3P arrangement, the pack provides 18Ah capacity, 60.8V nominal voltage, and approximately 1094.4Wh (1.094kWh) of nominal energy. With a 3C discharge specification, the theoretical discharge current is up to 54A, subject to the actual cell, BMS, wiring, connector, and thermal design. Key Features LiFePO4 / LFP rechargeable battery chemistry 19S3P configuration 60V-class battery pack 18000mAh / 18Ah capacity 60.8V nominal voltage 68.4V maximum charging voltage Approx. 1094.4Wh energy capacity 3C discharge specification Theoretical 3C current up to 54A High thermal stability Long cycle life Suitable for EV and industrial applications Custom BMS, connector and wire options available 19S3P Battery Configuration The 19S3P configuration consists of: 19 cells/groups connected in series 3 cells connected in parallel in each group Total cells: 19 ×3 = 57 cells Individual cell capacity: 6Ah Pack capacity: 6Ah ×3P = 18Ah Voltage Calculation 19 ×3.2V = 60.8V nominal 19 ×3.6V = 68.4V maximum charging voltage Energy Calculation 60.8V ×18Ah = 1094.4Wh 3C Discharge Configuration For an 18Ah battery: 18Ah ×3C = 54A Therefore, the theoretical 3C discharge current is 54A. Actual continuous

PRODUCT DATASHEET

discharge capability depends on: Cell discharge rating BMS current rating
Busbar/nickel-strip design Cable gauge Connector rating Battery temperature Thermal
management BMS Protection A suitable 19S 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 current rating should be selected according to the required continuous and
peak load. Connector & Wire 5mm DC Jack / 2-Pin JST options available Approx. 5cm standard
wire length Customized wire length available Connector can be customized according to
application Higher-current connector options available where required Applications Suitable
for: Electric scooters Electric bikes EV systems Robotics Industrial equipment Portable
power systems DC power applications Backup power systems Small energy-storage systems Custom
OEM battery packs Prototype and engineering projects Advantages 18Ah high-capacity
configuration 60V-class battery system Approx. 1.094kWh energy LiFePO4 chemistry High
thermal stability Long service life Rechargeable design 3C discharge capability Custom BMS
and connector options Suitable for OEM applications Package Includes 1 ×19S3P LiFePO4
Battery Pack 19S LiFePO4 BMS Output wires/connectors as selected Battery insulation and
protection materials