

Power Pack LiFePO4 19S 60V 15000mAh 19S1P With BMS 3C LFP Batt

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack LiFePO4 19S 60V 15000mAh 19S1P 3C LFP Battery
Pack Battery Chemistry LiFePO4 (Lithium Iron Phosphate) Cell Type LiFePO4 Cell Configuration
19S1P Dimensions / Weight Approx. 200 ×150 ×80 mm / 5.0 5.8 kg* Cell Capacity
Approximately 15000mAh Number of Cells 19 Cells Nominal Cell Voltage 3.2V Maximum Cell
Voltage 3.6V Nominal Pack Voltage 60.8V Maximum Charge Voltage 68.4V Pack Capacity 15Ah /
15000mAh Energy Capacity Approximately 912Wh Cell Discharge Rating 3C Theoretical 3C Current
45A BMS 19S LiFePO4 BMS, current rating according to application Battery Type Rechargeable
Connector Customized according to application Wire Length Customized Wire Customized
according to required current and application

TECHNICAL SPECIFICATIONS

Nominal Voltage: 60V
Capacity: 15000mAh
Energy: 912Wh
Chemistry: LFP
Maximum / BMS Current: 45A
Charging Voltage: 68.4V
Product Category: 19 Cell 60V LiFePo4 (LFP) Battery Pack (61V-69)

PRODUCT DESCRIPTION

Power Pack LiFePO4 19S 60V 15000mAh 19S1P With BMS 3C LFP Battery Pack The Power Pack
LiFePO4 19S 60V 15000mAh 19S1P 3C LFP Battery Pack is a rechargeable Lithium Iron Phosphate
battery pack designed for 60V-class electric vehicles, e-bikes, robotics, industrial
equipment, backup systems and customized power applications. This battery pack uses a 19S1P
configuration with 19 LiFePO4 cells. For a 15Ah pack in 1P configuration, the individual
cells are assumed to be approximately 15Ah each. The pack provides a nominal voltage of
60.8V, maximum charging voltage of 68.4V, and approximately 912Wh of energy. At a
theoretical 3C discharge rate, the 15Ah capacity corresponds to approximately 45A. Key
Features Battery Chemistry: LiFePO4 (Lithium Iron Phosphate) Nominal Voltage: 60.8V Maximum
Charge Voltage: 68.4V Capacity: 15Ah / 15,000mAh Configuration: 19S1P Total Cells: 19 Energy
Capacity: Approximately 912Wh Cell Capacity: Approximately 15Ah Discharge Rating: 3C
Theoretical 3C Current: 45A Rechargeable LFP battery technology Suitable for 60V-class
applications Custom BMS, connector, wire and enclosure options available 19S1P Battery
Configuration The battery consists of 19 cells connected in series, with 1 cell in parallel.
Series: 19 Parallel: 1 Total Cells: 19 Cell Capacity: 15Ah Pack Capacity: 15Ah Nominal
Voltage: 3.2V ×19 = 60.8V Maximum Charge Voltage: 3.6V ×19 = 68.4V Energy Capacity: 60.8V
×15Ah = 912Wh 3C Discharge Configuration The theoretical 3C current is: 15Ah ×3C = 45A

PRODUCT DATASHEET

Therefore, the theoretical 3C discharge current is 45A. Actual continuous discharge capability depends on the selected cells, BMS, wiring, connectors and thermal management.

BMS Protection A suitable 19S LiFePO4 BMS can provide: Overcharge protection Over-discharge protection Over-current protection Short-circuit protection Cell balancing Cell voltage monitoring Temperature protection, when supported by the selected BMS The BMS current rating should be selected according to the application's continuous and peak current requirements.

Connector & Wire The connector and output wiring can be customized according to the application. Possible options include: XT60 XT90 Anderson connector DC connector High-current connector Customized wire length Customized wire gauge Applications Suitable for: Electric bikes Electric scooters Electric vehicles Robotics AGV / AMR systems Industrial equipment Portable power systems Solar and backup power systems DC equipment Custom energy-storage systems OEM battery projects Advantages 15Ah LiFePO4 battery pack Approximately 912Wh energy capacity 19S1P configuration Theoretical 3C discharge capability LiFePO4 chemistry Suitable for 60V-class applications Custom BMS and connector options Suitable for OEM and customized battery requirements Package Includes 1 ×19S1P LiFePO4 Battery Pack 19S LiFePO4 BMS, if selected Output wires/connectors as specified Battery insulation and protective materials