

Power Pack LiFePO4 19S 60V 60000mAh 19S4P With BMS 3C LFP Batt

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack LiFePO4 19S 60V 60000mAh 19S4P With BMS 3C LFP

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

Configuration 19S4P Dimensions / Weight Approx. 300 ×200 ×140 mm / 9 11 kg* Cell Capacity

Approximately 15000mAh Number of Cells 76 Cells Nominal Cell Voltage 3.2V Maximum Cell

Voltage 3.6V Nominal Pack Voltage 60.8V Maximum Charge Voltage 68.4V Pack Capacity 60Ah /

60000mAh Energy Capacity Approximately 3648Wh Cell Discharge Rating 3C Theoretical 3C

Current 180A BMS 19S LiFePO4 BMS Included 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: 60000mAh
Energy: 3648Wh
Chemistry: LFP
Maximum / BMS Current: 180A
Charging Voltage: 68.4V
Product Category: 19 Cell 60V LiFePo4 (LFP) Battery Pack (61V-69)

PRODUCT DESCRIPTION

Power Pack LiFePO4 19S 60V 60000mAh 19S4P With BMS 3C LFP Battery Pack The Power Pack 60V

60Ah LiFePO4 battery pack 19S4P With BMS 3C LFP Battery Pack is a high-capacity rechargeable

Lithium Iron Phosphate battery pack designed for 60V-class electric vehicles, industrial

equipment, robotics, backup power and customized energy-storage applications. This battery

uses a 19S4P configuration with 76 LiFePO4 cells. To achieve the specified 60Ah capacity,

the pack requires approximately 15Ah cells, with four cells connected in parallel in each

series group. The pack provides 60.8V nominal voltage, 68.4V maximum charging voltage, and

approximately 3648Wh (3.65kWh) of energy. With a theoretical 3C discharge rate, the

calculated discharge current is approximately 180A. Key Features Battery Chemistry: LiFePO4

(Lithium Iron Phosphate) Nominal Voltage: 60.8V Maximum Charge Voltage: 68.4V Capacity: 60Ah

/ 60,000mAh Configuration: 19S4P Total Cells: 76 Cell Capacity: Approximately 15Ah Energy

Capacity: Approximately 3648Wh Discharge Rating: 3C Theoretical 3C Current: 180A BMS:

Included BMS Type: 19S LiFePO4 BMS Rechargeable LFP battery technology Suitable for

high-capacity 60V-class applications Custom connectors, wiring and enclosure options

available 19S4P Battery Configuration The battery pack contains 19 series groups, with 4

cells connected in parallel in each group. Series: 19 Parallel: 4 Total Cells: 19 ×4 = 76

cells Cell Capacity: 15Ah Pack Capacity: 15Ah ×4 = 60Ah Nominal Voltage: 3.2V ×19 = 60.8V

LION BATTERY

PRODUCT DATASHEET

Maximum Charge Voltage: $3.6V \times 19 = 68.4V$ Energy Capacity: $60.8V \times 60Ah = 3648Wh$ 3C

Discharge Configuration The theoretical 3C current is: $60Ah \times 3C = 180A$ Therefore, the theoretical 3C discharge current is 180A. Actual continuous discharge capability depends on the cell specifications and complete battery design, including the BMS, busbars, wiring,

connectors and thermal management. BMS Protection This battery pack includes a suitable 19S

LiFePO₄ BMS. Typical protection functions include: 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 actual continuous and peak current

requirements. Connector & Wire The output connector and wiring can be customized according

to the application. Possible options include: XT90 Anderson connector High-current DC

connector Custom high-current connectors Customized wire length Customized wire gauge

Applications Suitable for: Electric bikes Electric scooters Electric vehicles Industrial

vehicles Robotics AGV / AMR systems Portable power systems Solar and backup power Industrial

machinery DC power equipment Custom energy-storage systems OEM battery projects Advantages

60Ah high-capacity LiFePO₄ battery Approximately 3.65kWh energy capacity 19S4P configuration

BMS included Theoretical 3C discharge capability LiFePO₄ chemistry Suitable for

high-capacity 60V-class applications Custom connector and wiring options Suitable for OEM

and bulk battery requirements Package Includes 1 $\times$ 19S4P LiFePO₄ Battery Pack 1 $\times$ 19S

LiFePO₄ BMS Output wires/connectors as specified Battery insulation and protective materials