

Power Pack LiFePO4 16S 51.2V 135Ah 16S9P 3C With BMS LFP Battery

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack LiFePO4 16S 51.2V 135Ah 16S9P 3C With BMS LFP
Battery Pack Battery Chemistry LiFePO4 (Lithium Iron Phosphate) Cell Type LiFePO4 Cells
Configuration 16S9P Number of Cells 144 Cells Cell Capacity 15Ah Nominal Cell Voltage 3.2V
Nominal Pack Voltage 51.2V Maximum Charge Voltage 57.6V Pack Capacity 135Ah Energy Capacity
6,912Wh (6.91kWh) Cell Discharge Rating 3C Theoretical 1C Current 135A Theoretical 3C
Current 405A BMS 16S LiFePO4 BMS Included Battery Type Rechargeable Dimensions / Weight
Approx. 300 ×300 ×315 mm / 20 24 kg*

TECHNICAL SPECIFICATIONS

Nominal Voltage: 51.2V
Capacity: 135Ah
Energy: 912Wh
Chemistry: LFP
Maximum / BMS Current: 135A
Charging Voltage: 57.6V
Product Category: 16 Cell 51.2v LiFePo4 (LFP) Battery Pack (48V-55.5)

PRODUCT DESCRIPTION

Power Pack LiFePO4 16S 51.2V 135Ah 16S9P 3C With BMS LFP Battery Pack The Power Pack LiFePO4
16S 51.2V 135Ah 16S9P 3C With BMS LFP Battery Pack is a high-capacity lithium iron phosphate
battery designed for solar energy storage, inverter systems, UPS backup, EV applications,
and industrial power systems. This battery uses a 16S9P configuration with 15Ah LiFePO4
cells, providing 51.2V nominal voltage and 135Ah capacity. With approximately 6.91kWh energy
capacity and a 3C theoretical discharge capability of 405A, it is suitable for high-capacity
and high-power applications. A 16S LiFePO4 BMS is included for cell monitoring, balancing,
and battery protection. Key Features Battery Chemistry: LiFePO4 (LFP) Nominal Voltage: 51.2V
Capacity: 135Ah Configuration: 16S9P Cell Capacity: 15Ah Total Cells: 144 Energy Capacity:
Approximately 6.91kWh 3C Theoretical Current: 405A 16S LiFePO4 BMS included Excellent
thermal and chemical stability Long cycle life Suitable for solar, inverter and UPS systems
Suitable for EV and industrial applications 16S9P Battery Configuration The battery consists
of 144 LiFePO4 cells arranged in a 16S9P configuration. 16S9P = 16 cells in series ×9 cells
in parallel Using 15Ah cells: Series: 16 Parallel: 9 Total cells: 16 ×9 = 144 Capacity:
15Ah ×9 = 135Ah Nominal voltage: 3.2V ×16 = 51.2V Maximum charge voltage: 3.6V ×16 =
57.6V Energy: 51.2V ×135Ah = 6,912Wh 3C theoretical current: 135Ah ×3 = 405A BMS
Protection The included 16S LiFePO4 BMS provides battery monitoring and protection. Typical
functions include: Overcharge protection Over-discharge protection Over-current protection
Short-circuit protection Cell voltage monitoring Cell balancing Temperature protection

LION BATTERY

PRODUCT DATASHEET

Charging and discharging protection Communication options depending on the selected BMS model The BMS current rating should be selected according to the actual continuous and peak load requirements. Charging Information For this 16S LiFePO4 battery: Nominal Voltage: 51.2V Maximum Charge Voltage: 57.6V Battery Chemistry: LiFePO4 Recommended Charger: 16S LiFePO4 CC/CV charger Do not use a standard 67.2V Li-ion/NMC charger for this battery. Applications Solar energy storage systems 48V/51.2V inverter systems Home energy storage UPS backup systems Commercial energy storage Telecom backup systems Electric vehicles E-bike and scooter applications E-rickshaws Golf carts AGV/AMR robotics Industrial equipment Portable power systems OEM/ODM battery projects Advantages 6.91kWh energy capacity 51.2V nominal voltage 135Ah high-capacity design 3C high-power configuration LiFePO4 chemistry Excellent thermal stability Long service life Integrated BMS protection Suitable for daily charge/discharge cycles Suitable for high-current applications when correctly designed Package Includes 1 ×51.2V 135Ah LiFePO4 battery pack 144 ×LiFePO4 cells 16S9P battery assembly 16S LiFePO4 BMS Busbars/interconnections Insulation and assembly materials Battery terminals/connectors as specified