

Power Pack 14.8V 4000mAh 4S2P 1C BMS 6A Lithium-Ion Rechargeabl

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack 14.8V 4000mAh Lithium-Ion Battery Pack Battery Chemistry NMC Lithium-Ion Cell Type 18650 Configuration 4S2P Dimensions / Weight 53×43 × 135 mm / Approx. 400g Cell Capacity 2000mAh Nominal Cell Voltage 3.7V Nominal Pack Voltage 14.8V Maximum Charge Voltage 16.8V Pack Capacity 4000mAh (4Ah) Energy Capacity Approx. 44.4Wh Cell Discharge Rating 1C Theoretical 1C Current 4A BMS 4S 6A Battery Type Rechargeable Connector 5mm DC Jack / 2-Pin JST 54mm Wire Length 10cm Wire Customised length available

TECHNICAL SPECIFICATIONS

Nominal Voltage: 14.8V
Capacity: 4000mAh
Energy: 44.4Wh
Chemistry: Lithium-Ion
Maximum / BMS Current: 6A
Charging Voltage: 16.8V
Product Category: 4 Cell 15V Li-Ion Battery Pack (14.8V~16.8V)

PRODUCT DESCRIPTION

Power Pack 14.8V 4000mAh (4Ah) 4S2P 1C BMS 6A Lithium-Ion Rechargeable NMC Battery Pack The Power Pack 14.8V 4000mAh (4Ah) 4S2P 1C Lithium-Ion Rechargeable NMC Battery Pack is a compact and reliable NMC lithium-ion battery pack designed for applications requiring a stable 14.8V nominal power supply. The pack uses a 4S2P configuration, providing 4000mAh (4Ah) capacity. It is equipped with a 6A BMS to help protect the battery against overcharge, over-discharge, short circuit, and excessive current conditions. With its compact design and rechargeable lithium-ion technology, this power pack is suitable for electronics, portable equipment, robotics, lighting systems, backup power and other custom applications. Key Features Battery Chemistry: NMC Lithium-Ion Nominal Voltage: 14.8V Maximum Charging Voltage: 16.8V Capacity: 2000mAh / 2Ah Configuration: 4S2P Cell Count: 4 cells Cell Rating: 2000mAh per cell Cell Discharge Rating: 1C BMS: 4S 6A Rechargeable lithium-ion battery pack Compact and lightweight power solution Suitable for custom electronic and portable applications 3S2P Battery Configuration The battery consists of 6 NMC lithium-ion cells arranged in a 4S1P configuration. 4S: 4 cell groups connected in series 1P: 2 cells connected in parallel in each group Capacity per parallel group: 2 ×2000mAh = 4000mAh Nominal voltage: 4 ×3.7V = 14.8V Maximum charging voltage: 4 ×4.2V = 16.8V Total energy: 14.8V ×4Ah = 59.2Wh 1C Lithium-Ion Configuration The individual cells are rated at 1C. For a 4000mAh (4Ah) pack: Maximum theoretical current at 1C = 4Ah ×1C = 4A The 6A BMS rating does not mean the battery can safely deliver 6A continuously. Actual allowable current depends on the cells,

PRODUCT DATASHEET

BMS design, nickel/copper interconnections, wiring, connectors and thermal conditions. BMS Protection The integrated 4S 6A BMS is designed to provide protection functions such as: Overcharge protection Over-discharge protection Over-current protection Short-circuit protection Cell-level voltage monitoring Battery safety management Applications This 14.8V 4Ah battery pack can be used for: Portable electronic equipment Robotics projects RC and hobby applications LED and lighting systems CCTV and security equipment IoT and embedded systems Portable instruments Small backup power systems Custom electronic devices DIY battery projects Advantages Compact 4S1P configuration 4000mAh capacity Rechargeable NMC lithium-ion technology Integrated 6A BMS 14.8V nominal output 16.8V full-charge voltage Suitable for customized equipment and OEM applications Good balance between capacity and compact size Package Includes 1 ×14.8V 4000mAh 4S1P NMC Lithium-Ion Battery Pack 1 ×4S 6A BMS installed with the battery pack