PRODUCT DATASHEET

Power Pack 14.8V 6000mAh 4S3P 1C BMS 6A Lithium-Ion Rechargeabl

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack 14.8V 6000mAh Lithium-Ion Battery Pack Battery Chemistry NMC Lithium-Ion Cell Type 18650 Configuration 4S3P Dimensions / Weight Approx. 53 ×62 ×135 mm / 0.56g Cell Capacity 2000mAh Number of Cells 12 Nominal Cell Voltage 3.7V Nominal Pack Voltage 14.8V Maximum Charge Voltage 16.8V Pack Capacity 6000mAh (6Ah) Energy Capacity Approx. 88.8Wh Cell Discharge Rating 1C Theoretical 1C Current 6A BMS 4S 6A Battery Type Rechargeable Connector 5mm DC Jack / 2-Pin JST 54mm Wire Length 5cm Wire Customised Length Available

TECHNICAL SPECIFICATIONS

Nominal Voltage: 14.8V
Capacity: 6000mAh
Energy: 88.8Wh
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 6000mAh 4S3P 1C BMS 6A Lithium-Ion Rechargeable NMC Battery Pack The Power Pack 14.8V 6000mAh 4S3P 1C BMS 6A Lithium-Ion Rechargeable NMC Battery Pack is a compact rechargeable battery solution designed for applications requiring a reliable 14.8V nominal power supply with increased capacity and runtime. Built using 18650 NMC lithium-ion cells, this battery pack uses a 4S3P configuration, consisting of 4 cell groups connected in series with 3 cells connected in parallel in each group. This provides a total capacity of 6000mAh (6Ah) and approximately 88.8Wh of energy. The pack is equipped with a 4S 6A BMS to help protect the battery from overcharge, over-discharge, over-current and short-circuit conditions. The compact design makes it suitable for portable electronics, robotics, CCTV, lighting, backup power and other customized applications. Key Features Battery Chemistry: NMC Lithium-Ion Cell Type: 18650 Configuration: 4S3P Nominal Voltage: 14.8V Maximum Charge Voltage: 16.8V Capacity: 6000mAh / 6Ah Energy Capacity: Approx. 88.8Wh Total Cells: 12 Cell Capacity: 2000mAh Cell Discharge Rating: 1C Theoretical 1C Current: 6A BMS: 4S 6A Rechargeable lithium-ion battery Compact and practical design Suitable for OEM and custom applications Custom wire and connector options available 4S3P Battery Configuration The battery pack contains 12 ×18650 NMC cells arranged in a 4S3P configuration. 4S: 4 cell groups connected in series 3P: 3 cells connected in parallel per group Total Cells: 4 ×3 = 12 cells Cell Capacity: 2000mAh Pack Capacity: 3 ×2000mAh = 6000mAh (6Ah) Nominal Pack Voltage: 4 ×3.7V = 14.8V Maximum Charge Voltage: 4 ×4.2V = 16.8V Energy Capacity: 14.8V ×

LION BATTERY

PRODUCT DATASHEET

6Ah = 88.8Wh 1C Lithium-Ion Configuration The pack capacity is 6Ah and the cell discharge rating is 1C. Theoretical 1C Current = 6Ah ×1C = 6A The 6A BMS rating does not automatically mean the battery is guaranteed to deliver 6A continuously. Actual current capability depends on the cells, BMS, wiring, connectors, interconnections and thermal conditions. BMS Protection The integrated 4S 6A BMS helps protect the battery pack against: Overcharge Over-discharge Over-current Short circuit Abnormal cell voltage conditions Connector & Wire Standard configuration includes: Connector: 5mm DC Jack / 2-Pin JST JST Cable Length: 54mm Standard Wire Length: 5cm Custom Wire Length: Available Custom connectors and wire lengths can be supplied according to application requirements. Applications This 14.8V 6Ah battery pack can be used for: Portable electronic equipment Robotics CCTV and security systems LED lighting IoT equipment Portable instruments Industrial electronics Backup power systems Monitoring equipment DIY electronics Custom OEM equipment Portable power applications Advantages 6000mAh / 6Ah capacity 4S3P configuration Approx. 88.8Wh energy capacity 14.8V nominal voltage 16.8V maximum charging voltage Integrated 4S 6A BMS Rechargeable NMC lithium-ion technology Suitable for extended-runtime applications Custom connector and wire options available Suitable for OEM and customized battery requirements Package Includes 1 ×14.8V 6000mAh 4S3P NMC Lithium-Ion Battery Pack 1 ×4S 6A BMS 5mm DC Jack / 2-Pin JST connector 5cm standard wire

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