

Power Pack 14.8V 8000mAh 4S4P 1C BMS 10A Lithium-Ion Rechargeable

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack 14.8V 8000mAh Lithium-Ion Battery Pack Battery Chemistry NMC Lithium-Ion Cell Type 18650 Configuration 4S4P Dimensions / Weight Approx. 53×81×135 mm / 0.75kg Cell Capacity 2000mAh Number of Cells 16 Nominal Cell Voltage 3.7V Nominal Pack Voltage 14.8V Maximum Charge Voltage 16.8V Pack Capacity 8000mAh (8Ah) Energy Capacity Approx. 118.4Wh Cell Discharge Rating 1C Theoretical 1C Current 8A BMS 4S 10A 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: 8000mAh
Energy: 118.4Wh
Chemistry: Lithium-Ion
Maximum / BMS Current: 10A
Charging Voltage: 16.8V
Product Category: 4 Cell 15V Li-Ion Battery Pack (14.8V~16.8V)

PRODUCT DESCRIPTION

Power Pack 14.8V 8000mAh 4S4P 1C BMS 10A Lithium-Ion Rechargeable NMC Battery Pack The Power Pack 14.8V 8000mAh 4S4P 1C BMS 10A Lithium-Ion Rechargeable NMC Battery Pack is a rechargeable high-capacity battery solution designed for applications requiring reliable 14.8V power with extended runtime. Built using 18650 NMC lithium-ion cells, this battery pack uses a 4S4P configuration, consisting of 4 cell groups connected in series and 4 cells connected in parallel in each group. It provides 8000mAh (8Ah) capacity with approximately 118.4Wh of energy. The integrated 4S 10A BMS helps protect the battery from overcharge, over-discharge, over-current and short-circuit conditions. The pack is suitable for portable electronics, robotics, CCTV systems, lighting equipment, backup power and custom OEM applications. Key Features Battery Chemistry: NMC Lithium-Ion Cell Type: 18650 Configuration: 4S4P Nominal Voltage: 14.8V Maximum Charge Voltage: 16.8V Capacity: 8000mAh / 8Ah Energy Capacity: Approx. 118.4Wh Total Cells: 16 Cell Capacity: 2000mAh Cell Discharge Rating: 1C Theoretical 1C Current: 8A BMS: 4S 10A Rechargeable lithium-ion technology High-capacity design Compact and practical battery configuration Custom wire and connector options available 4S4P Battery Configuration The battery pack consists of 16 ×18650 NMC lithium-ion cells arranged in a 4S4P configuration. 4S: 4 cell groups connected in series 4P: 4 cells connected in parallel per group Total Cells: 4 ×4 = 16 cells Cell Capacity: 2000mAh Pack Capacity: 4 ×2000mAh = 8000mAh (8Ah) Nominal Voltage: 4 ×3.7V = 14.8V Maximum Charge Voltage: 4 ×4.2V = 16.8V Energy Capacity: 14.8V ×8Ah = 118.4Wh 1C Lithium-Ion

LION BATTERY

PRODUCT DATASHEET

Configuration The battery pack has a capacity of 8Ah and the cells are rated at 1C.

Theoretical 1C Current = 8Ah $\times$ 1C = 8A The 10A BMS rating does not automatically mean the

battery is rated for 10A continuous discharge. Actual current capability depends on the

cells, BMS, wiring, connectors, interconnections and thermal conditions. **BMS Protection** The

integrated 4S 10A BMS is designed to help protect the battery against: Overcharge

Over-discharge Over-current Short circuit Abnormal cell voltage conditions Connector & Wire

Standard configuration: Connector: 5mm DC Jack / 2-Pin JST JST Cable Length: 54mm Standard

Wire Length: 5cm Custom Wire Length: Available Custom connectors and cable lengths can be

provided according to application requirements. **Applications** This 14.8V 8Ah battery pack is

suitable 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**

8000mAh / 8Ah capacity 4S4P configuration Approx. 118.4Wh energy capacity 14.8V nominal

voltage 16.8V maximum charging voltage Integrated 4S 10A 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 $\times$ 14.8V

8000mAh 4S4P NMC Lithium-Ion Battery Pack 1 $\times$ 4S 10A BMS 5mm DC Jack / 2-Pin JST connector

5cm standard wire