

Power Pack 14.8V 2000mAh 4S1P 1C BMS 6A Lithium-Ion Rechargeabl

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack 14.8V 2000mAh Lithium-Ion Battery Pack Battery

Chemistry NMC Lithium-Ion Cell Type 18650 Configuration 4S1P Dimensions / Weight 53 ×24 ×

135mm / Approx. 190g Cell Capacity 2000mAh Nominal Cell Voltage 3.7V Nominal Pack Voltage

14.8V Maximum Charge Voltage 16.8V Pack Capacity 2000mAh (2Ah) Energy Capacity Approx.

29.6Wh Cell Discharge Rating 1C Theoretical 1C Current 2A BMS 4S 6A Battery Type

Rechargeable Connector 5mm DC Jack / 2-Pin JST 54mm Wire Length 5cm Wire Customised length available

TECHNICAL SPECIFICATIONS

NMC HARDWARE BMS: NMC 6A HARDWARE BMS, NONE
CONNECTOR: 2 pin jst 2.54mm connector, 5 pin jst connector, 5MM DC JACK, XT 30
Nominal Voltage: 14.8V
Capacity: 2000mAh
Energy: 29.6Wh
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 2000mAh 4S1P 1C BMS 6A Lithium-Ion Rechargeable NMC Battery Pack The Power Pack 14.8V 2000mAh 4S1P 1C BMS 6A Lithium-Ion Rechargeable NMC Battery Pack is a compact and reliable rechargeable battery solution designed for electronic equipment, portable devices, robotics, industrial systems, backup power applications, and other equipment requiring a 14.8V Lithium-Ion power source. This battery pack is manufactured using 3.7V 2000mAh 18650 NMC Lithium-Ion cells arranged in a 4S1P configuration. The 4S1P configuration provides a nominal output voltage of 14.8V and a battery capacity of 2000mAh (2Ah). When fully charged, the battery reaches 16.8V. The pack is fitted with a 6A BMS (Battery Management System) to help protect the cells against common battery faults such as overcharge, over-discharge, over-current, and short circuit, depending on the BMS configuration. With its compact configuration and rechargeable design, this battery pack is suitable for OEM projects, prototypes, electronic devices, robotics, instrumentation, and custom battery applications.

4S1P Battery Configuration This battery pack uses a 4S1P configuration: 4S: Four 3.7V cells connected in series 1P: One cell in each parallel group Total cells: 4 Nominal voltage: 3.7V ×4 = 14.8V Full-charge voltage: 4.2V ×4 = 16.8V Capacity: 2000mAh (2Ah) The series connection increases the voltage while the 1P configuration maintains the capacity of the individual cell. 6A BMS Protection The integrated 6A BMS helps manage and protect the

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PRODUCT DATASHEET

battery pack during normal operation. Depending on the exact BMS specification, protection can include: Overcharge protection Over-discharge protection Over-current protection Short-circuit protection Cell voltage monitoring Battery safety management The BMS helps improve the operational safety and reliability of the battery pack when used within its specified operating limits. Charging Information For this 4S NMC Lithium-Ion battery pack, use a compatible 16.8V CC/CV Lithium-Ion charger. Important: Do not use a 12.6V, 14.6V, or 29.2V charger. The charger voltage must match the 16.8V full-charge voltage of a 4S NMC battery. Applications The Power Pack 14.8V 2000mAh battery can be used in a wide range of applications, including: Portable electronic equipment Robotics and automation CCTV and security equipment Industrial instruments Testing and measurement equipment Backup power systems Portable devices IoT and electronic projects OEM equipment DIY battery projects Custom electronic applications Key Features 14.8V nominal voltage 2000mAh / 2Ah capacity 4S1P configuration 3.7V 2000mAh 18650 NMC cells 1C cell discharge rating 6A BMS Rechargeable Lithium-Ion battery Compact battery configuration Suitable for OEM and custom applications Requires a 16.8V Li-Ion charger Product Highlights Voltage: 14.8V Capacity: 2000mAh (2Ah) Configuration: 4S1P Cell: 18650 NMC, 3.7V 2000mAh BMS: 6A Charge Voltage: 16.8V Discharge Rating: 1C Battery Type: Rechargeable Lithium-Ion/NMC