

Power Pack 3.7V 2000mAh 1S1P 1C BMS 2A Lithium-Ion Rechargeable

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack 3.7V 2000mAh 1S1P 1C BMS 2A Lithium-Ion Rechargeable NMC Battery Pack Battery Chemistry NMC Lithium-Ion Cell Type 18650 Configuration 1S1P Dimensions / Weight 25 ×24 ×135mm / Approx. 0.05kg Cell Capacity 2000mAh Nominal Cell Voltage 3.7V Nominal Pack Voltage 3.7V Maximum Charge Voltage 4.2V Pack Capacity 2000mAh (2Ah) Energy Capacity Approx. 7.4Wh Cell Discharge Rating 1C Theoretical 1C Current 2A BMS 1S 2A Battery Type Rechargeable Connector 5mm DC Jack / 2-Pin JST 54mm Wire 5cm Length / Optional Customised Length

TECHNICAL SPECIFICATIONS

NMC HARDWARE BMS: NMC 2A HARDWARE BMS, NONE
CONNECTOR: 2 pin jst 2.54mm connector
Nominal Voltage: 3.7V
Capacity: 2000mAh
Energy: 7.4Wh
Chemistry: Lithium-Ion
Maximum / BMS Current: 2A
Charging Voltage: 4.2V
Product Category: 1 Cell 3.7V Li-Ion Battery Pack (3.7V-4.2)

PRODUCT DESCRIPTION

Power Pack 3.7V 2000mAh 1S1P 1C BMS 2A Lithium-Ion Rechargeable NMC Battery Pack The Power Pack 3.7V 2000mAh 1S1P 1C BMS 2A Lithium-Ion Rechargeable NMC Battery Pack is a compact and reliable rechargeable battery solution designed for portable electronics, IoT devices, CCTV systems, GPS equipment, robotics, industrial instruments, backup power and custom electronic applications. This battery pack is made using a 3.7V 2000mAh 18650 NMC Lithium-Ion cell in a 1S1P configuration. It provides a 3.7V nominal voltage, 2000mAh (2Ah) capacity, and approximately 7.4Wh energy capacity. The battery can be charged up to 4.2V using a compatible Lithium-Ion charger. The pack is equipped with a 1S 2A BMS (Battery Management System) to help protect the battery against overcharge, over-discharge, over-current and short-circuit conditions, depending on the exact BMS configuration. The battery comes with a 5mm DC Jack / 2-Pin JST 54mm connector and 5cm wire length. Customised wire lengths can also be provided according to the application requirement. Key Features 3.7V nominal voltage 2000mAh / 2Ah capacity 1S1P battery configuration High-quality 18650 NMC Lithium-Ion cell Integrated 1S 2A BMS 1C discharge rating Approx. 7.4Wh energy capacity Rechargeable battery design 4.2V maximum charging voltage Compact and lightweight construction 5mm DC Jack / 2-Pin JST connector 5cm standard wire length Customised wire length available Suitable for OEM, prototype and custom battery requirements 1S1P Configuration The battery uses a 1S1P

LION BATTERY

PRODUCT DATASHEET

configuration, meaning one Lithium-Ion cell is used in the pack. 1S: 1 cell connected in series 1P: 1 cell connected in parallel Total Cells: 1 Nominal Voltage: 3.7V Maximum Charge Voltage: 4.2V Capacity: 2000mAh (2Ah) Energy: Approx. 7.4Wh BMS Protection The integrated 1S 2A BMS is designed to help protect the battery during charging and discharging. Depending on the BMS model, protection functions may include: Overcharge protection Over-discharge protection Over-current protection Short-circuit protection Battery voltage monitoring Applications This 3.7V 2000mAh Lithium-Ion battery pack can be used in: Portable electronic devices IoT devices CCTV and security equipment GPS and tracking systems LED lighting equipment Small robotics projects Industrial instruments Electronic control systems Communication equipment Portable measuring equipment Backup power applications DIY electronics projects OEM products Custom battery-powered equipment Charging Information Use a compatible 4.2V Lithium-Ion CC/CV charger to charge this 1S NMC battery pack. Do not use a charger with an output voltage higher than 4.2V. Technical Data Sheet