

Power Pack 7.4V 6000mAh 2S3P 1C BMS 2A Lithium-Ion Rechargeable

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack 7.4V 6000mAh 2S3P Lithium-Ion Battery Pack
Battery Chemistry NMC Lithium-Ion Cell Type 18650 Configuration 2S3P Dimensions / Weight
Approx. 34 ×62 ×135 mm /300g Cell Capacity 2000mAh Number of Cells 6 Cells Nominal Cell
Voltage 3.7V Nominal Pack Voltage 7.4V Maximum Charge Voltage 8.4V Pack Capacity 6000mAh /
6Ah Energy Capacity Approx. 44.4Wh Cell Discharge Rating 1C Theoretical 1C Current 6A BMS 2S
2A BMS Battery Type Rechargeable Connector 5mm DC Jack / 2-Pin JST 54mm Wire Length 5cm Wire
Customised Length Available

TECHNICAL SPECIFICATIONS

Nominal Voltage: 7.4V
Capacity: 6000mAh
Energy: 44.4Wh
Chemistry: Lithium-Ion
Maximum / BMS Current: 2A
Charging Voltage: 8.4V
Product Category: 2 CELL LI-ON BATTERY PACK (7.4V-8.4V)

PRODUCT DESCRIPTION

Power Pack 7.4V 6000mAh 2S3P 1C BMS 2A Lithium-Ion Rechargeable NMC Battery Pack The Power
Pack 7.4V 6000mAh 2S3P 1C BMS 2A Lithium-Ion Rechargeable NMC Battery Pack is a compact and
reliable rechargeable power solution for portable electronics, robotics, backup systems,
lighting, instruments, and other low-voltage applications. Built using 18650 NMC lithium-ion
cells in a 2S3P configuration, this pack delivers 7.4V nominal voltage and 6000mAh capacity.
The integrated 2S 2A BMS provides battery protection during charging and discharging. The
battery can also be supplied with custom wire lengths and connector configurations to suit
specific equipment and OEM requirements. Key Features 7.4V nominal voltage 6000mAh / 6Ah
capacity 2S3P configuration NMC Lithium-Ion chemistry 18650 rechargeable cells 2S 2A BMS
protection 1C cell configuration 5mm DC Jack / 2-Pin JST 54mm Compact battery design
Custom wire length available Rechargeable and reusable Suitable for custom/OEM
applications 2S3P Battery Configuration This battery uses 6 ×18650 NMC cells arranged in a
2S3P configuration. 2S: 2 cell groups connected in series 3P: 3 cells connected in parallel
in each group Nominal voltage: 3.7V ×2 = 7.4V Capacity: 2000mAh ×3 = 6000mAh Total cells:
2 ×3 = 6 cells Maximum charging voltage: 8.4V Approximate energy: 7.4V ×6Ah = 44.4Wh 1C
Lithium-Ion Configuration Theoretical 1C current is calculated from the pack capacity: 6Ah ×
1C = 6A The 6A theoretical 1C value should not be confused with the 2A BMS rating. The
actual allowable operating current depends on the BMS, cells, wiring, connectors, thermal
conditions, and application. BMS Protection The integrated 2S 2A BMS is designed to provide

PRODUCT DATASHEET

protection against common battery fault conditions, including: Overcharge Over-discharge
Over-current Short circuit Cell imbalance Connector & Wire Connector: 5mm DC Jack / 2-Pin
JST 54mm Standard Wire Length: 5cm Custom Wire: Available Wire and connector specifications
can be customized according to application requirements. Applications Suitable for: Portable
electronic devices Robotics and small robots IoT equipment LED lighting CCTV/security
equipment GPS equipment Portable instruments Communication equipment Backup power systems
DIY electronics Custom electronic equipment Advantages Compact 7.4V rechargeable power
source 6000mAh capacity High energy density NMC chemistry 2S3P configuration Integrated BMS
protection Custom wire and connector options Suitable for OEM and custom battery
requirements Package Includes 1 ×7.4V 6000mAh 2S3P NMC Lithium-Ion Battery Pack 1 ×2S 2A
BMS Connector and wires as specified