

Power Pack 14.8V 12000mAh 4S6P 1C BMS 20A Lithium-Ion Rechargeable

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack 14.8V 12000mAh Lithium-Ion Battery Pack
Battery Chemistry NMC Lithium-Ion Cell Type 18650 Configuration 4S6P Number of Cells 24
Cells Cell Capacity 2000mAh Nominal Cell Voltage 3.7V Nominal Pack Voltage 14.8V Maximum
Charge Voltage 16.8V Pack Capacity 12000mAh (12Ah) Energy Capacity Approx. 177.6Wh Cell
Discharge Rating 1C Theoretical 1C Current 12A BMS 4S 20A BMS Battery Type Rechargeable
Dimensions / Weight Approx. 53 ×119 ×135mm / Approx. 1.13kg Connector 5mm DC Jack / 2-Pin
JST 54mm* Wire Length 5cm* Wire Customized Length Available

TECHNICAL SPECIFICATIONS

Nominal Voltage: 14.8V
Capacity: 12000mAh
Energy: 177.6Wh
Chemistry: Lithium-Ion
Maximum / BMS Current: 20A
Charging Voltage: 16.8V
Product Category: 4 Cell 15V Li-Ion Battery Pack (14.8V~16.8V)

PRODUCT DESCRIPTION

Power Pack 14.8V 12000mAh 4S6P 1C BMS 20A Lithium-Ion Rechargeable NMC Battery Pack The
Power Pack 14.8V 12000mAh 4S6P 1C BMS 20A Lithium-Ion Rechargeable NMC Battery Pack is a
high-capacity rechargeable battery designed for portable electronics, robotics, industrial
equipment, backup systems, and custom applications requiring a reliable 14.8V power source.
This battery pack uses 18650 NMC lithium-ion cells arranged in a 4S6P configuration,
providing 14.8V nominal voltage and 12000mAh (12Ah) capacity. The integrated 4S 20A BMS
helps protect the battery during charging and discharging. 4S6P Configuration The battery
pack uses a 4S6P configuration with a total of 24 cells: 4S = 4 cell groups connected in
series 6P = 6 cells connected in parallel in each group Total cells = 4 ×6 = 24 cells Cell
capacity = 2000mAh Parallel group capacity = 2000mAh ×6 = 12000mAh Nominal pack voltage =
3.7V ×4 = 14.8V Maximum charge voltage = 4.2V ×4 = 16.8V Energy capacity = 14.8V ×12Ah =
177.6Wh The 4S configuration provides the 14.8V nominal voltage, while the 6P configuration
increases the capacity to 12Ah. 4S 20A BMS Protection The pack includes a 4S 20A BMS to help
protect the battery cells during normal operation. Typical protection functions include:
Overcharge protection Over-discharge protection Over-current protection Short-circuit
protection Cell voltage monitoring Charging protection Discharging protection The actual
continuous output current should be determined from the complete pack design, including the
selected cells, BMS, wiring, connectors and thermal conditions. Charging Use a dedicated
16.8V NMC/Li-ion charger for this 4S battery pack. Charging specifications: Nominal battery

PRODUCT DATASHEET

voltage: 14.8V Maximum charge voltage: 16.8V Recommended charger: 16.8V Li-ion charger

Battery chemistry: NMC Lithium-Ion Do not use a 14.6V LiFePO4 charger for this NMC battery

pack. Applications This 14.8V 12Ah battery pack can be suitable for: Portable electronic

equipment Robotics Industrial equipment CCTV and security systems LED lighting IoT devices

Communication equipment Measuring instruments Portable power systems DIY electronics Backup

power applications Custom electronic equipment Small electric equipment Key Features 14.8V

nominal voltage 12000mAh / 12Ah capacity 4S6P configuration 24 ×18650 cells NMC lithium-ion

chemistry 1C cell discharge rating 4S 20A BMS Approx. 177.6Wh energy capacity Rechargeable

battery design Compact and customizable construction Custom connector and wire options

available