

Power Pack 14.8V 20000mAh 4S10P 1C BMS 20A Lithium-Ion Rechargeable

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack 14.8V 20000mAh Lithium-Ion Battery Pack
Battery Chemistry NMC Lithium-Ion Cell Type 18650 Configuration 4S10P Number of Cells 40
Cells Cell Capacity 2000mAh Nominal Cell Voltage 3.7V Nominal Pack Voltage 14.8V Maximum
Charge Voltage 16.8V Pack Capacity 20000mAh (20Ah) Energy Capacity Approx. 296Wh Cell
Discharge Rating 1C Theoretical 1C Current 20A BMS 4S 20A BMS Battery Type Rechargeable
Dimensions / Weight Approx. 53 ×195 ×135 mm / Approx. 1.88 kg* Connector 5mm DC Jack /
2-Pin JST 54mm* Wire Length 5cm* Wire Customized Length Available

TECHNICAL SPECIFICATIONS

Nominal Voltage: 14.8V
Capacity: 20000mAh
Energy: 296Wh
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 20000mAh 4S10P 1C BMS 20A Lithium-Ion Rechargeable NMC Battery Pack The
Power Pack 14.8V 20000mAh 4S10P 1C BMS 20A Lithium-Ion Rechargeable NMC Battery Pack is a
high-capacity rechargeable battery pack designed for portable electronics, robotics,
industrial equipment, backup power systems, and custom applications requiring a reliable
14.8V power source. This battery pack uses 18650 NMC lithium-ion cells arranged in a 4S10P
configuration, providing 14.8V nominal voltage and 20000mAh (20Ah) capacity. The integrated
4S 20A BMS helps protect the battery during charging and discharging. 4S10P Configuration
The battery pack uses a 4S10P configuration with a total of 40 cells: 4S = 4 cell groups
connected in series 10P = 10 cells connected in parallel in each group Total cells = 4 ×10
= 40 cells Cell capacity = 2000mAh Parallel group capacity = 2000mAh ×10 = 20000mAh Nominal
pack voltage = 3.7V ×4 = 14.8V Maximum charge voltage = 4.2V ×4 = 16.8V Energy capacity =
14.8V ×20Ah = 296Wh The 4S configuration provides the 14.8V nominal voltage, while the 10P
configuration increases the capacity to 20Ah. 4S 20A BMS Protection The battery pack is
equipped with a 4S 20A BMS to help protect the battery cells during charging and
discharging. 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 current capability depends on the
selected cells, BMS design, wiring, connectors and overall pack construction. Charging Use a
dedicated 16.8V NMC/Li-ion charger for this 4S battery pack. Charging specifications:

LION BATTERY

PRODUCT DATASHEET

Nominal battery 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 20Ah 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 20000mAh / 20Ah capacity 4S10P configuration 40

×18650 cells NMC lithium-ion chemistry 1C cell discharge rating 4S 20A BMS Approx. 296Wh

energy capacity Rechargeable battery design High-capacity configuration Custom connector and

wire options available