

Power Pack 11.1V 20000mAh 3S10P 1C BMS 20A Lithium-Ion Rechargeable

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack 11.1V 20000mAh Lithium-Ion Battery Pack
Battery Chemistry NMC Lithium-Ion Cell Type 18650 Configuration 3S10P Dimensions / Weight
Approx. 44 ×195 ×135 mm / 1.41kg Cell Capacity 2000mAh Number of Cells 30 Nominal Cell
Voltage 3.7V Nominal Pack Voltage 11.1V Maximum Charge Voltage 12.6V Pack Capacity 20000mAh
(20Ah) Energy Capacity Approx. 222Wh Cell Discharge Rating 1C Theoretical 1C Current 20A BMS
3S 20A Battery Type Rechargeable Connector 5mm DC Jack / 2-Pin JST 54mm Wire Length 5cm Wire
Customised Length Available

TECHNICAL SPECIFICATIONS

Nominal Voltage: 11.1V
Capacity: 20000mAh
Energy: 222Wh
Chemistry: Lithium-Ion
Maximum / BMS Current: 20A
Charging Voltage: 12.6V
Product Category: 3 CELL LI-ON BATTERY PACK (11.1V-12.6V)

PRODUCT DESCRIPTION

Power Pack 11.1V 20000mAh 3S10P 1C BMS 20A Lithium-Ion Rechargeable NMC Battery Pack The
Power Pack 11.1V 20000mAh 3S10P 1C BMS 20A Lithium-Ion Rechargeable NMC Battery Pack is a
high-capacity rechargeable battery solution designed for applications requiring reliable
11.1V power and extended operating time. Built using 18650 NMC lithium-ion cells, this
battery pack uses a 3S10P configuration, with 3 cell groups connected in series and 10 cells
connected in parallel in each group. The result is a 20Ah (20,000mAh) battery pack with
approximately 222Wh of energy capacity. The battery is equipped with a 3S 20A BMS to help
provide protection against overcharge, over-discharge, over-current and short-circuit
conditions. Its high capacity makes it suitable for portable electronics, robotics, CCTV,
backup power, industrial equipment and customized OEM applications. Key Features Battery
Chemistry: NMC Lithium-Ion Cell Type: 18650 Configuration: 3S10P Nominal Voltage: 11.1V
Maximum Charge Voltage: 12.6V Capacity: 20000mAh / 20Ah Energy Capacity: Approx. 222Wh Total
Cells: 30 Cell Capacity: 2000mAh Cell Discharge Rating: 1C Theoretical 1C Current: 20A BMS:
3S 20A Rechargeable lithium-ion technology High-capacity design for extended runtime
Suitable for OEM and custom applications Custom wire and connector options available 3S10P
Battery Configuration The battery pack consists of 30 ×18650 NMC cells arranged in a 3S10P
configuration. 3S: 3 groups connected in series 10P: 10 cells connected in parallel per
group Total Cells: 3 ×10 = 30 cells Cell Capacity: 2000mAh Pack Capacity: 10 ×2000mAh =
20000mAh (20Ah) Nominal Voltage: 3 ×3.7V = 11.1V Maximum Charge Voltage: 3 ×4.2V = 12.6V

LION BATTERY

PRODUCT DATASHEET

Energy Capacity: $11.1V \times 20Ah = 222Wh$ 1C Lithium-Ion Configuration The pack has a capacity of 20Ah and the cells are rated at 1C. Theoretical 1C Current = $20Ah \times 1C = 20A$ The 20A BMS rating should not automatically be treated as the guaranteed continuous discharge capability of the battery. Actual current capability depends on cell specifications, BMS design, wiring, connectors, interconnections and thermal management. BMS Protection The integrated 3S 20A BMS helps protect the battery pack against: Overcharge Over-discharge Over-current Short circuit Abnormal cell voltage conditions The BMS helps improve the safety and reliability of the battery during normal charging and discharging. Connector & Wire Standard configuration: Connector: 5mm DC Jack / 2-Pin JST JST Cable Length: 54mm Standard Wire Length: 5cm Custom Wire Length: Available Connector and cable specifications can be customized according to application requirements. Applications This 11.1V 20Ah battery pack is suitable for: Portable electronic equipment Robotics CCTV and security systems LED lighting systems IoT equipment Portable instruments Industrial electronics Backup power systems Monitoring equipment Communication equipment DIY electronics Custom OEM equipment Portable power applications Advantages High 20Ah capacity 3S10P configuration Approx. 222Wh energy capacity 11.1V nominal output 12.6V maximum charging voltage Integrated 20A BMS Rechargeable NMC lithium-ion technology Designed for extended runtime Custom connector and wire options available Suitable for OEM and customized battery requirements Package Includes 1 $\times$ 11.1V 20000mAh 3S10P NMC Lithium-Ion Battery Pack 1 $\times$ 3S 20A BMS 5mm DC Jack / 2-Pin JST connector 5cm standard wire