

Power Pack 11.1V 12000mAh 3S6P 1C BMS 20A Lithium-Ion Rechargeable

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack 11.1V 12000mAh Lithium-Ion Battery Pack
Battery Chemistry NMC Lithium-Ion Cell Type 18650 Configuration 3S6P Number of Cells 18
Cells Cell Capacity 2000mAh Nominal Cell Voltage 3.7V Nominal Pack Voltage 11.1V Maximum
Charge Voltage 12.6V Pack Capacity 12000mAh (12Ah) Energy Capacity Approx. 133.2Wh Cell
Discharge Rating 1C Theoretical 1C Current 12A BMS 3S 20A BMS Battery Type Rechargeable
Dimensions / Weight Approx. 44 ×119 ×135 mm / Approx. 0.85kg Connector 5mm DC Jack / 2-Pin
JST 54mm* Wire Length 5cm* Wire Customized Length Available

TECHNICAL SPECIFICATIONS

Nominal Voltage: 11.1V
Capacity: 12000mAh
Energy: 133.2Wh
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 12000mAh 3S6P 1C BMS 20A Lithium-Ion Rechargeable NMC Battery Pack The
Power Pack 11.1V 12000mAh 3S6P 1C BMS 20A Lithium-Ion Rechargeable NMC Battery Pack is a
high-capacity rechargeable battery designed for portable electronics, industrial equipment,
robotics, backup power, and custom applications requiring a reliable 11.1V lithium-ion power
source. This battery pack uses 18650 NMC lithium-ion cells in a 3S6P configuration,
providing 11.1V nominal voltage and 12000mAh (12Ah) capacity. The integrated 3S 20A BMS
provides essential battery protection and helps manage safe charging and discharging. 3S6P
Configuration The battery uses an 18-cell 3S6P configuration: 3S = 3 cell groups connected
in series 6P = 6 cells connected in parallel in each group Total cells = 3 ×6 = 18 cells
Cell capacity = 2000mAh Group capacity = 2000mAh ×6 = 12000mAh Nominal voltage = 3.7V ×3 =
11.1V Full-charge voltage = 4.2V ×3 = 12.6V Energy = approximately 133.2Wh The 3S
arrangement increases the voltage, while the 6P arrangement increases the available
capacity. 3S 20A BMS The battery pack is equipped with a 3S 20A BMS for battery protection
and monitoring. Typical protection functions include: Overcharge protection Over-discharge
protection Over-current protection Short-circuit protection Cell voltage monitoring Battery
protection during charging and discharging The 20A BMS rating does not mean the cells
themselves are automatically rated for 20A continuous discharge. The final usable current
should be based on the selected cells, BMS specifications, wiring, connectors and complete
pack design. Charging Use a dedicated 12.6V lithium-ion charger designed for a 3S NMC

PRODUCT DATASHEET

battery pack. Charging specifications: Nominal voltage: 11.1V Maximum charge voltage: 12.6V
Recommended charger: 12.6V Li-ion charger Chemistry: NMC Lithium-Ion Do not use a 14.6V
LiFePO4 charger for this NMC battery pack. Applications This 11.1V 12Ah battery pack can be
suitable for: Portable electronic equipment Robotics Industrial equipment CCTV and security
systems LED lighting systems IoT equipment Communication equipment Measuring instruments
Portable power systems DIY electronics Backup power applications Custom equipment and
machinery Key Features 11.1V nominal voltage 12000mAh / 12Ah capacity 3S6P configuration 18
×18650 cells NMC lithium-ion chemistry 1C cell discharge rating 3S 20A BMS Approx. 133.2Wh
energy Rechargeable design Suitable for custom applications Custom connector and wire
options available