

Power Pack 11.1V 16000mAh 3S8P 1C BMS 20A Lithium-Ion Rechargeable

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack 11.1V 16000mAh Lithium-Ion Battery Pack
Battery Chemistry NMC Lithium-Ion Cell Type 18650 Configuration 3S8P Number of Cells 24
Cells Cell Capacity 2000mAh Nominal Cell Voltage 3.7V Nominal Pack Voltage 11.1V Maximum
Charge Voltage 12.6V Pack Capacity 16000mAh (16Ah) Energy Capacity Approx. 177.6Wh Cell
Discharge Rating 1C Theoretical 1C Current 16A BMS 3S 20A BMS Battery Type Rechargeable
Dimensions / Weight Approx. 44 ×157 ×135 mm / Approx. 1.13kg Connector 5mm DC Jack / 2-Pin
JST 54mm* Wire Length 5cm* Wire Customized Length Available

TECHNICAL SPECIFICATIONS

Nominal Voltage: 11.1V
Capacity: 16000mAh
Energy: 177.6Wh
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 16000mAh 3S8P 1C BMS 20A Lithium-Ion Rechargeable NMC Battery Pack The
Power Pack 11.1V 16000mAh 3S8P 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 other applications requiring a dependable 11.1V power source.
This battery pack uses 18650 NMC lithium-ion cells in a 3S8P configuration, providing 11.1V
nominal voltage and 16000mAh (16Ah) capacity. The integrated 3S 20A BMS helps protect the
battery from overcharge, over-discharge, over-current, and short-circuit conditions. 3S8P
Configuration This battery uses a 3S8P configuration with a total of 24 cells. 3S = 3 cell
groups connected in series 8P = 8 cells connected in parallel in each group Total cells = 3
×8 = 24 cells Cell capacity = 2000mAh Parallel group capacity = 2000mAh ×8 = 16000mAh
Nominal voltage = 3.7V ×3 = 11.1V Maximum charge voltage = 4.2V ×3 = 12.6V Energy capacity
= 11.1V ×16Ah = 177.6Wh The 3S arrangement provides the required voltage, while the 8P
arrangement increases the battery capacity. 3S 20A BMS Protection The battery pack includes
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 Charging protection Discharging protection The actual
continuous current capability depends on the cells, BMS, wiring, connectors and overall pack
design. Charging For safe charging, use a dedicated 12.6V NMC/Li-ion charger. Charging
specifications: Battery nominal voltage: 11.1V Maximum charge voltage: 12.6V Recommended

PRODUCT DATASHEET

charger: 12.6V Li-ion charger Battery chemistry: NMC Lithium-Ion Do not use a 14.6V LiFePO4 charger for this NMC battery pack. Applications This 11.1V 16Ah 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 Key Features 11.1V nominal voltage 16000mAh / 16Ah capacity 3S8P configuration 24 ×18650 cells NMC lithium-ion chemistry 1C cell discharge rating 3S 20A BMS Approx. 177.6Wh energy Rechargeable design Suitable for high-capacity portable applications Custom connector and wire options available