

Power Pack 11.1V 10000mAh 3S5P 1C BMS 10A Lithium-Ion Rechargeable

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack 11.1V 10000mAh Lithium-Ion Battery Pack
Battery Chemistry NMC Lithium-Ion Cell Type 18650 Configuration 3S5P Total Number of Cells
15 Cells Dimensions / Weight Approx. 44 ×100 ×135 mm / Approx. 0.71kg Cell Capacity
2000mAh Nominal Cell Voltage 3.7V Nominal Pack Voltage 11.1V Maximum Charge Voltage 12.6V
Pack Capacity 10000mAh (10Ah) Energy Capacity Approx. 111Wh Cell Discharge Rating 1C
Theoretical 1C Current 10A BMS 3S 10A Battery Type Rechargeable Charging Method CC/CV
Recommended Charger 12.6V Li-Ion Charger Connector 5mm DC Jack / 2-Pin JST 54mm Wire Length
5cm Wire Customised Length Available Application Robotics, RC, Electronics, Portable
Equipment & Custom Projects

TECHNICAL SPECIFICATIONS

Nominal Voltage: 11.1V
Capacity: 10000mAh
Energy: 111Wh
Chemistry: Lithium-Ion
Maximum / BMS Current: 10A
Charging Voltage: 12.6V
Product Category: 3 CELL LI-ON BATTERY PACK (11.1V-12.6V)

PRODUCT DESCRIPTION

Power Pack 11.1V 10000mAh 3S5P 1C BMS 10A Lithium-Ion Rechargeable NMC Battery Pack The
Power Pack 11.1V 10000mAh 3S5P 1C BMS 10A Lithium-Ion Rechargeable NMC Battery Pack is a
high-capacity rechargeable battery solution designed for robotics, RC vehicles, portable
electronics, industrial equipment, CCTV systems, LED lighting, backup power, and custom
electronic applications. This battery pack uses NMC lithium-ion 18650 cells arranged in a
3S5P configuration, providing 11.1V nominal voltage and 10000mAh (10Ah) capacity. A 3S 10A
BMS helps protect the battery during charging and discharging. With approximately 111Wh of
nominal energy, this battery pack is suitable for applications requiring a reliable 11.1V
power source with higher capacity and longer operating time. 3S5P Battery Configuration The
battery pack consists of 15 individual 18650 cells arranged in a 3S5P configuration. 3 cell
groups connected in series 5 cells connected in parallel in each group Total cells: 3 ×5 =
15 cells Cell capacity: 2000mAh Pack capacity: 5 ×2000mAh = 10000mAh Nominal voltage: 3 ×
3.7V = 11.1V Maximum charging voltage: 3 ×4.2V = 12.6V Nominal energy: 11.1V ×10Ah = 111Wh
The 3S5P configuration provides higher capacity than 3S3P 6000mAh and 3S4P 8000mAh versions
while maintaining the same 11.1V nominal voltage. 10A BMS Protection The integrated 3S 10A
BMS is designed to help protect the battery pack during normal operation. Depending on the
BMS design, protection functions may include: Overcharge protection Over-discharge

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PRODUCT DATASHEET

protection Over-current protection Short-circuit protection Cell voltage monitoring Battery protection during charging and discharging The BMS rating should be considered together with the cell specifications, wiring, connectors and application load. 1C Discharge Rating The battery has a 1C cell discharge rating. For a 10Ah pack: $10\text{Ah} \times 1\text{C} = 10\text{A}$ theoretical current The pack's actual safe operating current depends on the selected cells, BMS and complete battery construction. 12.6V Charging This is a 3S NMC lithium-ion battery pack, so its maximum charging voltage is 12.6V. Nominal Voltage: 11.1V Maximum Charge Voltage: 12.6V Use a compatible 12.6V CC/CV lithium-ion charger. Do not use a charger with an incorrect voltage or charging profile. High-Capacity 11.1V Battery With a 10000mAh (10Ah) capacity, this battery pack provides approximately 111Wh of nominal energy. The higher capacity can help extend operating time compared with lower-capacity 11.1V battery packs. Actual runtime depends on the connected equipment's power consumption, operating conditions, discharge current and battery condition. Suitable Applications This 11.1V 10000mAh battery pack can be used for: RC Vehicles Robotics CCTV & Security Equipment LED Lighting Portable Electronics Industrial Instruments GPS & Tracking Equipment Communication Equipment Backup Power Systems DIY Electronics Projects Portable Equipment Custom Electronic Devices Key Features 11.1V nominal voltage 10000mAh / 10Ah capacity 3S5P configuration NMC lithium-ion chemistry 15 × 18650 cells 3S 10A BMS Approximately 111Wh energy Rechargeable battery design 12.6V maximum charging voltage Compact and practical battery-pack configuration 5mm DC Jack / 2-Pin JST connector option Customized wire length available Suitable for OEM and custom applications Custom Battery Pack Manufacturing LionBattery can manufacture customized lithium-ion battery packs according to your equipment requirements. Customization options include: Battery voltage Battery capacity Cell configuration Battery dimensions BMS current rating Connector type Charging connector Discharge connector Wire gauge Wire length Battery enclosure Pack shape and layout Why Choose This Battery Pack? The Power Pack 11.1V 10000mAh offers a higher-capacity solution for equipment requiring an 11.1V rechargeable lithium-ion power source. Its 3S5P configuration provides 10Ah capacity while maintaining the commonly used 11.1V nominal voltage. It is a suitable choice for applications where compact size, rechargeable operation and increased energy capacity are important.