

Power Pack 36V 10000mAh 10S5P 1C BMS 20A Bike Battery | Premium

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Power Pack 36V 10000mAh 10S5P Electric Bike Battery
Battery Chemistry NMC Lithium-Ion Cell Type 18650 Configuration 10S5P Dimensions / Weight
Approx. 90 ×90 ×180 mm / 900g Cell Capacity 2000mAh Number of Cells 50 Cells Nominal Cell
Voltage 3.6 3.7V Nominal Pack Voltage 36V Maximum Charge Voltage 42V Pack Capacity 10000mAh
/ 10Ah Energy Capacity Approx. 360Wh Cell Discharge Rating 1C Theoretical 1C Current 10A BMS
10S 20A BMS Battery Type Rechargeable Connector Application Dependent / Customizable Wire
Length Customised Wire Customised Length Available

TECHNICAL SPECIFICATIONS

Nominal Voltage: 36V
Capacity: 10000mAh
Energy: 360Wh
Chemistry: NMC
Maximum / BMS Current: 20A
Charging Voltage: 42V
Product Category: E BIKE BATTERY LI-ION NMC PACK

PRODUCT DESCRIPTION

Power Pack 36V 10000mAh 10S5P 1C BMS 20A Bike Battery | Premium Electric Bike Battery The
Power Pack 36V 10000mAh 10S5P 1C BMS 20A Bike Battery is a rechargeable NMC Lithium-Ion
battery pack designed for electric bikes, e-bikes, scooters, and other 36V electric mobility
applications. Built with 18650 lithium-ion cells in a 10S5P configuration, this battery
provides 36V nominal voltage and 10000mAh (10Ah) capacity. The integrated 10S 20A BMS helps
protect the battery during charging and discharging while supporting reliable operation.
With approximately 360Wh of energy, this battery is suitable for applications requiring a
compact yet high-energy 36V battery solution. Key Features 36V nominal voltage 10000mAh /
10Ah capacity 10S5P cell configuration NMC Lithium-Ion chemistry 18650 rechargeable cells
10S 20A BMS 1C cell discharge configuration Designed for electric bikes and e-bikes
Rechargeable battery pack Compact and practical battery design Custom wire and connector
options available Suitable for OEM and custom battery requirements 10S5P Battery
Configuration This battery contains 50 ×18650 NMC cells arranged in a 10S5P configuration.
10S: 10 cell groups connected in series 5P: 5 cells connected in parallel in each group
Total cells: 10 ×5 = 50 cells Nominal voltage: 3.6V ×10 = 36V Capacity: 2000mAh ×5 =
10000mAh / 10Ah Maximum charge voltage: 4.2V ×10 = 42V Energy capacity: 36V ×10Ah = 360Wh
1C Lithium-Ion Configuration The theoretical 1C current is: 10Ah ×1C = 10A The 10A
theoretical 1C current is separate from the 20A BMS rating. The 20A BMS does not
automatically mean that the battery can continuously deliver 20A. Actual discharge

PRODUCT DATASHEET

capability depends on the cells, BMS, wiring, connectors, temperature, and complete battery-pack construction. BMS Protection The integrated 10S 20A BMS helps protect the battery from common operating conditions such as: Overcharge Over-discharge Over-current Short circuit Cell imbalance The BMS helps improve the safety and reliability of the battery during normal operation. Electric Bike Applications This 36V 10Ah e-bike battery is suitable for: Electric bicycles E-bikes Electric scooters BLDC motor systems DIY electric bikes Low-power electric mobility systems Portable electric vehicles Custom EV projects Electric bike conversion kits Connector & Wire The connector and cable configuration can be selected according to the motor controller and vehicle design. Connector: Application Dependent / Customizable Wire Length: Customised Wire Gauge: Selected according to application current Custom Connector: Available on request Advantages 36V nominal voltage 10Ah capacity Approximately 360Wh energy 10S5P configuration NMC cells provide good energy density Integrated 20A BMS Suitable for electric bike applications Rechargeable design Custom battery-pack configurations available Suitable for OEM and bulk requirements Package Includes 1 ×36V 10000mAh 10S5P NMC Electric Bike Battery 1 ×10S 20A BMS Output/charging wires and connector as specified