

Falcon 60V 36Ah Lithium-Ion E-Bike Battery | High Capacity

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Falcon 60V 36Ah Lithium-Ion E-Bike Battery Battery
Chemistry NMC Lithium-Ion Cell Type 18650 Configuration 16S xP Nominal Voltage 59.2V
Commercial Voltage Class 60V Maximum Charge Voltage 67.2V Pack Capacity 36Ah Energy Capacity
Approx. 2,131Wh Cell Nominal Voltage 3.7V Number of Series Groups 16S BMS 16S BMS, current
rating according to application Battery Type Rechargeable Charging Voltage 67.2V Cell
Chemistry NMC Cell Format 18650 Cylindrical Dimensions / Weight Custom / enclosure-dependent
Connector Application-specific Wire Length Customised Length Available

TECHNICAL SPECIFICATIONS

Nominal Voltage: 60V
Capacity: 36Ah
Energy: 131Wh
Chemistry: Lithium-Ion
Charging Voltage: 67.2V
Product Category: E BIKE BATTERY LI-ION NMC PACK

PRODUCT DESCRIPTION

Falcon 60V 36Ah Lithium-Ion E-Bike Battery | High Capacity The Falcon 60V 36Ah Lithium-Ion E-Bike Battery is a high-capacity rechargeable battery pack designed for electric bikes, high-power e-scooters, and other electric mobility applications requiring extended riding range and reliable energy delivery. This battery uses NMC Lithium-Ion 18650 cells in a 16S configuration, providing approximately 59.2V nominal voltage and 67.2V maximum charging voltage. With a large 36Ah capacity, it provides approximately 2,131Wh of nominal energy, making it suitable for long-range applications. The battery can be supplied with a suitable 16S BMS, with the BMS current rating selected according to the motor, controller, cell specification, and required discharge current. Key Features 60V commercial-class Lithium-Ion battery 36Ah high-capacity design NMC Lithium-Ion chemistry 18650 cylindrical cells 16S configuration Approx. 59.2V nominal voltage 67.2V maximum charging voltage Approx. 2.13kWh energy capacity Suitable for long-range e-bike applications Rechargeable battery pack BMS protection available Custom connector, wire length, enclosure and BMS options available Suitable for OEM and custom electric vehicle applications 60V 36Ah Battery Configuration The battery is based on a 16S NMC configuration. Series groups: 16S Nominal voltage: 16 x3.7V = 59.2V Maximum charge voltage: 16 x4.2V = 67.2V Capacity: 36Ah Nominal energy: 59.2V x36Ah = 2,131Wh The exact number of cells in parallel (P) depends on the selected 18650 cell capacity. BMS Protection A suitable 16S BMS can provide protection against: Overcharge Over-discharge Over-current Short circuit Cell imbalance Excessive temperature, when temperature protection is included The BMS current rating should be

PRODUCT DATASHEET

selected according to the motor/controller requirements and actual cell discharge capability. Connector & Wiring Connector and cable specifications can be customised according to the e-bike or controller. Available options may include: XT60 XT90 Anderson-type connectors DC charging connectors Custom power connectors Custom wire length Separate charging and discharge connections Applications Electric Bikes High-Power E-Bikes Electric Scooters Long-Range E-Bikes Electric Mobility Vehicles Custom EV Projects Conversion Kits OEM Battery Packs Robotics and Portable Power Systems Custom Lithium Battery Applications Advantages High 36Ah capacity Approximately 2.13kWh energy storage Designed for extended-range applications NMC chemistry provides high energy density 18650 cell format allows flexible pack design Custom BMS and connector options Suitable for OEM and bulk battery requirements Also Look for This Products: Fox Lithium-Ion 48V 41Ah E-Bike Battery Package Includes 1 xFalcon 60V 36Ah Lithium-Ion Battery Pack Important Charging Information Use a 67.2V Lithium-Ion/NMC charger specifically designed for a 16S NMC battery. Do not use a LiFePO4 charger or a charger with an unsuitable output voltage. The charger current should also be selected according to the battery pack and BMS specifications.