

Falcon 48V 32Ah Lithium-Ion E-Bike Battery | High Capacity

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name Falcon 48V 32Ah Lithium-Ion E-Bike Battery Battery Chemistry NMC Lithium-Ion Battery Type Rechargeable Nominal Voltage 48V Actual Nominal Voltage Approx. 48.1V Maximum Charge Voltage 54.6V Capacity 32Ah Energy Capacity Approx. 1539Wh Cell Type 18650 Lithium-Ion Configuration 13S Parallel Capacity Selected according to cell capacity BMS Suitable 13S BMS Charging Method CC/CV Lithium-Ion Charging Recommended Charger 54.6V Lithium-Ion Charger Application E-Bike / Electric Bicycle Dimensions / Weight Depends on enclosure and final battery construction Connector Application-specific Wire Length Customised as required

TECHNICAL SPECIFICATIONS

Nominal Voltage: 48V
Capacity: 32Ah
Energy: 1539Wh
Chemistry: Lithium-Ion
Charging Voltage: 54.6V
Product Category: E BIKE BATTERY LI-ION NMC PACK

PRODUCT DESCRIPTION

Falcon 48V 32Ah Lithium-Ion E-Bike Battery | High Capacity The Falcon 48V 32Ah Lithium-Ion E-Bike Battery is a high-capacity rechargeable battery pack designed for electric bicycles and compatible 48V-class electric mobility applications. With a 32Ah capacity, this battery provides approximately 1.54kWh of nominal energy, making it suitable for e-bike applications requiring extended operating time and reliable power. The battery uses a 13S NMC lithium-ion configuration, providing approximately 48.1V nominal voltage and 54.6V maximum charging voltage. A suitable BMS helps monitor the battery and provides protection during charging and discharging. Key Features Battery Voltage: 48V Battery Capacity: 32Ah Chemistry: NMC Lithium-Ion Configuration: 13S Nominal Voltage: Approx. 48.1V Maximum Charge Voltage: 54.6V Energy Capacity: Approx. 1,539Wh High-capacity e-bike battery Rechargeable lithium-ion technology Suitable for electric bicycles and mobility applications BMS protection Suitable for replacement and custom e-bike applications Custom connector and wiring options available 48V 32Ah Battery Configuration A 48V-class NMC lithium-ion battery generally uses 13 cells/groups in series (13S). For this battery: Series: 13S Nominal cell voltage: 3.7V Pack nominal voltage: 13 ×3.7V ≈ 48.1V Maximum voltage: 13 ×4.2V = 54.6V Capacity: 32Ah Nominal energy: 48.1V ×32Ah ≈ 1539Wh The 48V designation is the standard commercial voltage class for this type of e-bike battery. BMS Protection The battery is designed to use a suitable 13S BMS for monitoring and battery protection. Typical protection functions include: Overcharge protection Over-discharge protection Overcurrent protection Short-circuit

LION BATTERY

PRODUCT DATASHEET

protection Cell voltage monitoring Protection during charging and discharging The BMS current rating should be selected according to the motor/controller requirements and the discharge capability of the cells. Charging & Connection For this 48V NMC lithium-ion battery, use a: 54.6V Lithium-Ion CC/CV Charger The charger must be compatible with a 13S NMC lithium-ion battery. Connector type, discharge cable, charging port, and wire length can be customized according to the e-bike system. Applications The Falcon 48V 32Ah battery is suitable for: Electric bicycles High-capacity e-bikes E-bike conversion projects Electric scooters Electric cargo bikes Long-range e-bike applications Replacement e-bike batteries Custom electric mobility systems OEM e-bike applications Advantages 32Ah high-capacity battery Approximately 1.54kWh nominal energy Suitable for 48V-class e-bike systems Rechargeable NMC lithium-ion chemistry 13S battery architecture BMS protection Suitable for replacement and custom battery applications Custom connector and wiring options Suitable for OEM and bulk requirementAlso Look for This Products: Fox Lithium-Ion 48V 32Ah E-Bike Battery Package Includes 1 xFalcon 48V 32Ah Lithium-Ion E-Bike Battery Important Charging Information Use only a 54.6V lithium-ion CC/CV charger designed for a 13S NMC lithium-ion battery. Do not use a 58.4V LiFePO4 charger with this NMC battery. Before installation, verify the battery polarity, connector type, controller voltage, BMS current rating, and charger voltage.