

BAK 10S 36V 60000mAh 60Ah 10S12P 3C Lithium-Ion Rechargeable Ba

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Brand BAK Battery Chemistry Lithium-Ion / NMC Cell Type BAK 21700 Cell
Capacity 5000mAh Cell Nominal Voltage 3.6V Configuration 10S12P Number of Cells 120 Cells
Nominal Voltage 36V Nominal Capacity 60Ah / 60,000mAh Nominal Energy Approx. 2,160Wh /
2.16kWh Maximum Pack Voltage 42V Cell Discharge Rating Up to 3C Charging Method CC/CV
Recommended Charger 42V Li-ion Charger BMS Dimension/weight 10S 20A Li-ion BMS 125*269*145mm
/ 8.4kg

TECHNICAL SPECIFICATIONS

Nominal Voltage: 36V
Capacity: 60000mAh
Energy: 160Wh
Chemistry: Lithium-Ion
Maximum / BMS Current: 20A
Charging Voltage: 42V
Product Category: 10 Cell 36V Li-Ion Battery Pack (36V~42V)

PRODUCT DESCRIPTION

The BAK 10S 36V 60000mAh (60Ah) 10S12P 3C Lithium-Ion Rechargeable Battery Pack is a high-capacity NMC Lithium-Ion battery pack designed for e-bikes, electric scooters, energy storage systems, robotics, portable power systems, and other 36V-class applications. Built in a 10S12P configuration, the pack contains 120 lithium-ion cells, arranged as 10 series groups with 12 cells connected in parallel in each group. Using approximately 5000mAh cells, the battery provides a total capacity of 60Ah (60,000mAh). With a typical NMC cell nominal voltage of 3.6V, the pack provides approximately 36V nominal voltage and approximately 2.16kWh nominal energy. The maximum charging voltage is 42V, based on 4.2V per cell. The pack can be configured with a suitable 10S NMC BMS, cell balancing, connectors, wiring, insulation, and protective enclosure according to the application requirements. Key Features BAK Lithium-Ion Cells NMC Lithium-Ion Chemistry 10S12P Battery Configuration 36V-Class Lithium-Ion Battery 60000mAh (60Ah) Capacity 3C Cell Technology Approximately 2.16kWh Nominal Energy High Energy Density Rechargeable Battery Pack Suitable for E-Bikes & Energy Storage Optional Standard or Smart BMS Bluetooth / CAN / RS485 BMS Options Custom Connectors & Wiring Available OEM & Custom Battery Pack Manufacturing Battery Configuration 10S12P = 10 series groups ×12 cells in parallel Series: 10S Parallel: 12P Total Cells: 120 Capacity: 60Ah Nominal Voltage: 36V Maximum Charging Voltage: 42V Nominal Energy: approximately 2.16kWh BMS: 36V 10S 20A Lithium-Ion BMS Applications This BAK 36V 60Ah battery pack is suitable for: 36V E-Bikes Electric Scooters Electric Bicycles Energy Storage Systems Portable Power Systems Robotics AGV & Automation Systems Small EV Applications Solar Energy

PRODUCT DATASHEET

Storage Backup Power Systems Industrial Equipment Custom OEM Battery Packs BMS & Protection

A suitable 10S NMC BMS can be integrated to help provide: Overcharge protection

Over-discharge protection Over-current protection Short-circuit protection Cell balancing,
depending on BMS model Temperature monitoring, where supported The BMS current rating should
be selected according to the continuous and peak current requirements of the application.

Advantages High-capacity 60Ah battery Reliable BAK NMC cells 10S12P configuration

Approximately 2.16kWh energy 36V-class output High energy density Suitable for e-bike

applications Suitable for energy storage Optional Smart BMS Custom wiring and connectors OEM

and bulk manufacturing available Package Includes 1 ×BAK 10S 36V 60000mAh (60Ah) 10S12P 3C

Lithium-Ion Rechargeable Battery Pack