

BAK 13S 48V 60000mAh (60Ah) 13S12P 3C Lithium-Ion Rechargeable Battery Pack

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name BAK 13S 48V 60000mAh Battery Pack Brand BAK Battery Chemistry Lithium-Ion / NMC Cell Type BAK 21700 Cell Model N21700CG-50 Cell Capacity 5000mAh Cell Nominal Voltage 3.6V Cell Charging Voltage 4.2V Configuration 13S12P Number of Cells 156 Cells Nominal Voltage 46.8V Market Voltage Class 48V Nominal Capacity 60Ah / 60,000mAh Nominal Energy Approx. 2,808Wh / 2.81kWh Maximum Pack Voltage 54.6V Cell Discharge Rating Up to 3C Dimension/weight 158*269*145mm / 10.92kg BMS JBD HARDWARE BMS Recommended Charger 54.6V Li-ion Charger

TECHNICAL SPECIFICATIONS

Nominal Voltage: 48V
Capacity: 60000mAh
Energy: 808Wh
Chemistry: Lithium-Ion
Charging Voltage: 4.2V
Product Category: 13 Cell 48V Li-Ion Battery Pack (46.8V~54.6V)

PRODUCT DESCRIPTION

BAK 13S 48V 60000mAh (60Ah) 13S12P 3C Lithium-Ion Rechargeable Battery Pack The BAK 13S 48V 60000mAh (60Ah) 13S12P 3C Lithium-Ion Rechargeable Battery Pack is a high-capacity NMC lithium-ion battery pack designed for 48V-class electric vehicles, e-bikes, e-scooters, energy-storage systems, industrial equipment, and other high-power applications. This pack uses 12 BAK 21700 cells in parallel across 13 series groups, giving a total of 156 cells. With 5000mAh cells, the 13S12P configuration provides 60Ah capacity. BAK's 21700 5000mAh cell is specified at approximately 3.6V nominal, 4.2V charging voltage and 3C maximum continuous discharge capability. Key Features BAK 21700 5000mAh cells 13S12P configuration 48V nominal battery system 60Ah / 60,000mAh capacity 156 cells total NMC Lithium-Ion chemistry 3C cell discharge rating High energy capacity Suitable for high-capacity EV applications Rechargeable design Requires a compatible 13S Li-ion BMS Suitable for custom battery-pack applications Voltage note: With 3.6V nominal BAK cells, the calculated electrical nominal voltage is 46.8V, commonly sold as a 48V-class battery. Full charge is 54.6V (13 x4.2V). BAK's cell specifications confirm the 3.6V nominal and 4.2V maximum charging voltage. Capacity & Energy Calculation Cell capacity: 5AhParallel configuration: 12P 5Ah x12 = 60Ah Total cells: 13S x12P = 156 cells Approximate nominal energy: 46.8V x 60Ah = 2,808Wh So this battery provides approximately 2.81kWh of nominal energy. Applications 48V E-bike battery systems Electric scooters Electric motorcycles Electric carts Electric vehicles Industrial vehicles Robotics Solar energy storage Portable power systems High-capacity backup power Custom EV battery packs Industrial battery systems BMS &

PRODUCT DATASHEET

Charging A 13S Li-ion BMS is recommended to provide cell-group monitoring and protection against conditions such as overcharge, over-discharge and excessive current. For charging, use a dedicated 54.6V CC/CV Li-ion charger suitable for a 13S NMC/Li-ion battery pack.

Important Safety Note This is a high-energy lithium-ion battery pack. Proper BMS protection, cell matching, insulation, interconnects, enclosure and charging equipment are important for safe operation. The pack should be assembled and serviced by a qualified battery-pack technician.