

BAK 13S 48V 65000mAh (65Ah) 13S13P 3C Lithium-Ion Rechargeable Battery Pack

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name BAK 13S 48V 65Ah Battery Pack Brand BAK Battery Chemistry NMC / Lithium-Ion Cell Type 21700 Cell Model BAK N21700CG-50 Cell Capacity 5000mAh / 5Ah Cell Nominal Voltage 3.6V Cell Maximum Charging Voltage 4.2V Configuration 13S13P Total Cells 169 Cells Nominal Pack Voltage 46.8V Market Voltage Class 48V Battery Capacity 65Ah / 65,000mAh Nominal Energy Approx. 3,042Wh / 3.04kWh Full-Charge Voltage 54.6V Cell Max Discharge Rate 3C BMS JBD HARDWARE BMS Dimension/weight 158*291*145mm / 11.83kg Recommended Charger 54.6V Li-ion Charger

TECHNICAL SPECIFICATIONS

Nominal Voltage: 48V
Capacity: 65000mAh
Energy: 042Wh
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 65000mAh (65Ah) 13S13P 3C Lithium-Ion Rechargeable Battery Pack The BAK 13S 48V 65000mAh (65Ah) 13S13P 3C Lithium-Ion Rechargeable Battery Pack is a high-capacity NMC lithium-ion battery pack designed for e-bikes, electric scooters, electric motorcycles, EVs, industrial equipment, and other 48V-class applications. This battery uses BAK N21700CG-50 21700 cells, with each cell rated at 3.6V nominal voltage, 5Ah typical capacity and up to 3C maximum discharge rate. Key Features BAK 21700 5000mAh cells 13S13P configuration 65Ah / 65,000mAh capacity 48V-class lithium-ion battery 169 cells total NMC / Li-ion chemistry 3C maximum cell discharge rate High-capacity rechargeable battery Suitable for EV and mobility applications Compatible with a 13S Li-ion BMS Full-charge voltage: 54.6V BAK specifies the N21700CG-50 at 3.6V nominal, 5.0Ah typical capacity, 4.2V charging limit and 3C maximum discharge. Capacity Calculation 5Ah ×13 parallel cells = 65Ah Total number of cells: 13S × 13P = 169 cells Approximate nominal energy: 46.8V ×65Ah = 3,042Wh So the pack provides approximately 3.04kWh of nominal energy. Voltage Information Nominal voltage: 46.8V Common market designation: 48V Full-charge voltage: 54.6V Configuration: 13 series groups Each series group: 13 cells in parallel The 48V designation is commonly used for this battery class, while the calculated nominal voltage using BAK's 3.6V cell specification is 46.8V. Applications 48V electric bicycles Electric scooters Electric motorcycles Electric carts EV conversion projects Industrial vehicles Robotics Portable power systems Solar energy storage High-capacity backup systems Custom EV battery packs BMS & Charging A suitable 13S Li-ion BMS should be used with this battery pack for cell-group monitoring and protection. For

PRODUCT DATASHEET

charging, use a dedicated 54.6V CC/CV lithium-ion charger designed for 13S NMC/Li-ion battery packs. Important Safety Note This is a high-energy lithium-ion battery pack. Proper cell matching, BMS protection, insulation, nickel/busbar connections, wiring, enclosure and suitable charging equipment are important for safe operation. Battery assembly and servicing should be performed by a qualified battery-pack technician.