

BAK 13S 48V 70000mAh (70Ah) 13S14P 3C Lithium-Ion Rechargeable Battery Pack

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name BAK 13S 48V 70Ah 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 Charging Voltage 4.2V Configuration 13S14P Total Cells 182 Cells Nominal Pack Voltage 46.8V Market Voltage Class 48V Battery Capacity 70Ah / 70,000mAh Nominal Energy Approx. 3,276Wh / 3.28kWh Full-Charge Voltage 54.6V Cell Maximum Discharge 3C Cell Maximum Charge 1C BMS JBD HARDWARE BMS Dimension/weight 158*313*145mm / 12.74kg Recommended Charger 54.6V Li-ion Charger

TECHNICAL SPECIFICATIONS

Nominal Voltage: 48V
Capacity: 70000mAh
Energy: 276Wh
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 70000mAh (70Ah) 13S14P 3C Lithium-Ion Rechargeable Battery Pack The BAK 13S 48V 70000mAh (70Ah) 13S14P 3C Lithium-Ion Rechargeable Battery Pack is a high-capacity NMC lithium-ion battery pack designed for 48V-class e-bikes, electric scooters, electric motorcycles, EVs, industrial equipment, and high-capacity energy-storage applications. This pack uses BAK N21700CG-50 21700 lithium-ion cells, rated at 3.6V nominal voltage, 5.0Ah typical capacity, and up to 3C maximum discharge rate. Key Features BAK 21700 5000mAh cells 13S14P configuration 70Ah / 70,000mAh capacity 48V-class lithium-ion battery 182 cells total NMC / Hi-Ni lithium-ion chemistry 3C maximum cell discharge rate High energy capacity Rechargeable battery design Suitable for EV and mobility applications Requires a compatible 13S Li-ion BMS Full-charge voltage: 54.6V BAK's datasheet specifies the N21700CG-50 at 3.6V nominal, 5.0Ah typical capacity, 4.2V charging voltage, 1C maximum charging current and 3C maximum discharge current. Capacity Calculation Each cell provides approximately 5Ah. 5Ah × 14P = 70Ah Total cells: 13S ×14P = 182 cells Approximate nominal energy: 46.8V ×70Ah = 3,276Wh Therefore, the battery provides approximately 3.28kWh nominal energy. Voltage Information Nominal voltage: 46.8V Marketed voltage class: 48V Full-charge voltage: 54.6V Series configuration: 13S Parallel configuration: 14P Cell voltage: 3.6V nominal / 4.2V maximum The 48V designation is the common system-voltage class; using the BAK cell's 3.6V nominal rating, the calculated nominal pack voltage 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

PRODUCT DATASHEET

backup systems Custom EV battery packs Industrial battery systems BMS & Charging A suitable 13S Li-ion BMS should be installed to provide protection and monitoring for the 13 series cell groups. For charging, use a dedicated 54.6V CC/CV lithium-ion charger designed for a 13S NMC/Li-ion battery pack. Important Safety Note This is a high-energy 3.28kWh lithium-ion battery pack. Proper cell matching, BMS protection, insulation, interconnections, wiring, enclosure and compatible charging equipment are essential for safe operation. Battery assembly and servicing should be performed by a qualified battery-pack technician.