

BAK 4S 14.8V 20000mAh (20Ah) 4S4P 3C Lithium-Ion Rechargeable Ba

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Product Name BAK 4S 14.8V 20000mAh Lithium-Ion Battery Pack Brand BAK
Battery Chemistry NMC Lithium-Ion Configuration 4S4P Total Number of Cells 16 Cell Type
Cylindrical Lithium-Ion Cell Capacity 5000mAh Nominal Cell Voltage 3.7V Nominal Pack Voltage
14.8V Maximum Charge Voltage 16.8V Pack Capacity 20000mAh (20Ah) Energy Capacity Approx.
296Wh Discharge Rating 3C Theoretical 3C Current 60A Dimension/weight 59*93*145mm / 1.12kg
BMS OPTIONAL Application Specific Connector Customizable Wire Customizable

TECHNICAL SPECIFICATIONS

Nominal Voltage: 14.8V
Capacity: 20000mAh
Energy: 296Wh
Chemistry: Lithium-Ion
Maximum / BMS Current: 60A
Charging Voltage: 16.8V
Product Category: 4 Cell 15V Li-Ion Battery Pack (14.8V~16.8V)

PRODUCT DESCRIPTION

BAK 4S 14.8V 20000mAh (20Ah) 4S4P 3C Lithium-Ion Rechargeable Battery Pack The BAK 4S 14.8V
20000mAh (20Ah) 4S4P 3C Lithium-Ion Rechargeable Battery Pack is a high-capacity NMC
Lithium-Ion battery pack designed for applications requiring reliable 14.8V power and
extended runtime. Built using BAK 3.7V 5000mAh lithium-ion cells, the pack is configured as
4S4P, providing 14.8V nominal voltage, 20Ah capacity, and approximately 296Wh energy. With a
3C configuration, the theoretical discharge capability is 60A. Actual continuous current
depends on the selected cells, BMS, wiring, connectors, nickel/copper interconnections and
thermal management. Key Features Brand: BAK Battery Chemistry: NMC Lithium-Ion
Configuration: 4S4P Nominal Voltage: 14.8V Maximum Charging Voltage: 16.8V Capacity:
20000mAh (20Ah) Cell Capacity: 5000mAh Total Cells: 16 Discharge Rating: 3C Theoretical 3C
Current: 60A Rechargeable Lithium-Ion battery High-capacity design for longer operating time
Suitable for custom battery pack applications BMS, connector and wiring options can be
customized 4S4P Battery Configuration The pack contains 16 cells arranged in a 4S4P
configuration: 4 cells in series (4S) -> 14.8V nominal 4 cells in parallel (4P) -> 20Ah
capacity Total cells: 4 ×4 = 16 cells Nominal energy: 14.8V ×20Ah = 296Wh Maximum charging
voltage: 4.2V ×4 = 16.8V 3C Lithium-Ion Configuration The theoretical 3C discharge current
is: 20Ah ×3C = 60A This is a theoretical calculation based on the stated 3C rating. The
actual continuous discharge current should be limited by the complete battery system,
especially the BMS, cells, wiring, connectors and thermal conditions. BMS Protection A
suitable BMS can provide protection against: Overcharge Over-discharge Over-current Short

PRODUCT DATASHEET

circuit Cell imbalance Excessive temperature Abnormal charging and discharging conditions

The BMS current rating should be selected according to the actual load requirements of the

application. Applications The BAK 4S4P 14.8V 20Ah battery pack can be used for: Portable

Power Equipment Robotics RC Projects Electric Mobility Projects Small EV Applications Backup

Power Systems DC Power Equipment Industrial Electronics Custom Battery Projects OEM Battery

Applications Advantages 20Ah high-capacity configuration 14.8V nominal voltage Approximately

296Wh energy 4S4P cell configuration 3C discharge configuration Rechargeable NMC Lithium-Ion

technology Suitable for extended-runtime applications Custom BMS options available Custom

connectors and wiring available Suitable for OEM and bulk battery requirements Package

Includes 1 ×BAK 4S4P 14.8V 20000mAh Lithium-Ion Battery Pack BMS according to selected

configuration Connector and wiring according to selected configuration