

BAK 6S 22.2V 65000mAh (65Ah) Lithium-Ion Battery Pack | 6S13P 3C U

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Brand BAK Chemistry NMC Lithium-Ion Cell Format 21700 Individual Cell
Capacity 5000mAh Number of Cells 78 Cells Configuration 6S13P Nominal Voltage 22.2V Full
Charge Voltage 25.2V Battery Capacity 65Ah / 65000mAh Nominal Energy ~1443Wh Series Groups 6
Parallel Cells per Group 13 Cell Discharge Rating Up to 3C* Rechargeable Yes BMS
Dimension/weight JBD HARDWARE BMS 81*291*145mm / 5.46kg Application Type High-capacity
rechargeable power

TECHNICAL SPECIFICATIONS

Nominal Voltage: 22.2V
Capacity: 65000mAh
Energy: 1443Wh
Chemistry: Lithium-Ion
Maximum / BMS Current: 195A
Charging Voltage: 25.2V
Product Category: 6 Cell 24V Li-Ion Battery Pack (22.2V~25.2V)

PRODUCT DESCRIPTION

BAK 6S 22.2V 65000mAh (65Ah) Lithium-Ion Battery Pack | 6S13P 3C Ultra High Capacity
Rechargeable Battery The BAK 6S 22.2V 65000mAh (65Ah) Lithium-Ion Battery Pack is a
high-capacity NMC lithium-ion battery pack configured as 6S13P, using BAK 21700 5000mAh
cells. With a nominal voltage of 22.2V and a capacity of 65Ah, this pack provides
approximately 1.44kWh of nominal energy. The 6S13P configuration combines 6 cells in series
and 13 cells in parallel in each series group, providing a high-capacity solution for
applications requiring extended runtime and reliable rechargeable power. Key Features Brand:
BAK Battery Chemistry: Lithium-Ion / NMC Cell Type: 21700 cylindrical cells Cell Capacity:
5000mAh per cell Configuration: 6S13P Nominal Voltage: 22.2V Maximum Charging Voltage: 25.2V
Rated Capacity: 65000mAh / 65Ah Energy: Approximately 1443Wh Cell Discharge Rating: Up to
3C, subject to cell model and pack design High-capacity design for long operating time
Suitable for custom BMS, connectors, wiring and enclosure options 6S13P Battery
Configuration This battery contains 78 individual 21700 cells: 6 cells/groups in series (6S)
13 cells in parallel per series group (13P) Total cells = 6 ×13 = 78 cells Capacity = 13 ×
5Ah = 65Ah Nominal voltage = 6 ×3.7V = 22.2V Maximum charge voltage = 6 ×4.2V = 25.2V
Nominal energy = 22.2V ×65Ah ? 1443Wh 3C Lithium-Ion Configuration The BAK cells are
specified as 3C-class discharge cells. A theoretical cell-group calculation would be: 65Ah ×
3C = 195A However, 195A should not automatically be treated as the pack’s continuous
discharge rating. The final safe current must be limited by the selected BMS, cell
specifications, interconnects, wiring, connectors and thermal design. BMS Protection A

LION BATTERY

PRODUCT DATASHEET

suitable 6S NMC Lithium-Ion BMS can provide protection against: Overcharge Over-discharge Over-current Short circuit Over-temperature Cell imbalance Excessive charging/discharging conditions For high-current applications, select the BMS according to the actual continuous and peak load requirements. Applications The 22.2V 65Ah battery pack can be used for: Electric vehicles and mobility systems Electric scooters and custom EV projects Robotics Portable power systems Backup power applications Industrial equipment DC power systems High-capacity DIY battery projects Custom electronics and engineering projects Solar and energy-storage applications where NMC chemistry is appropriate Advantages High 65Ah capacity Approximately 1.44kWh nominal energy Compact 21700 cell format 6S13P configuration provides high capacity Suitable for extended-runtime applications Rechargeable lithium-ion technology Custom BMS and connector options available Suitable for OEM and custom battery-pack applications Package Includes 1 xBAK 6S13P 22.2V 65Ah Lithium-Ion Battery Pack BMS according to selected configuration Battery wiring/interconnects Output connector according to requirement Important Charging Information Use a 25.2V lithium-ion charger specifically designed for a 6S NMC battery pack. Do not use a LiFePO4 charger or charger intended for a different series configuration. Do not charge or operate the battery without an appropriate BMS and correctly matched charger.