

DMEGC 6S 22.2V 22500mAh (22.5Ah) 6S5P 3C Lithium-Ion Rechargeable Battery Pack

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Brand DMEGC Chemistry NMC Lithium-Ion Configuration 6S5P Nominal

Voltage 22.2V Maximum Charge Voltage 25.2V Capacity 22.5Ah / 22500mAh Nominal Energy

~499.5Wh Series Groups 6 Parallel Cells per Group 5 Total Cells 30 Cell Capacity 4500mAh

Cell Nominal Voltage 3.7V Cell Discharge Rating Up to 3C* Dimension/weight 81*115**145mm /

2.1kg BMS JBD HARDWARE BMS

TECHNICAL SPECIFICATIONS

Nominal Voltage: 22.2V
Capacity: 22500mAh
Energy: 499.5Wh
Chemistry: Lithium-Ion
Maximum / BMS Current: 67.5A
Charging Voltage: 25.2V
Product Category: 6 Cell 24V Li-Ion Battery Pack (22.2V~25.2V)

PRODUCT DESCRIPTION

DMEGC 6S 22.2V 22500mAh (22.5Ah) 6S5P 3C Lithium-Ion Rechargeable Battery Pack The DMEGC 6S

22.2V 22500mAh (22.5Ah) Lithium-Ion Rechargeable Battery Pack is a high-capacity NMC

lithium-ion battery pack configured in 6S5P. It is designed using DMEGC lithium-ion cells

and provides a nominal voltage of 22.2V with a capacity of 22.5Ah. The pack delivers

approximately 499.5Wh of nominal energy, making it suitable for electric mobility, robotics,

portable power systems, industrial equipment and other applications requiring a reliable

rechargeable lithium-ion power source. Key Features Brand: DMEGC Battery Chemistry: NMC

Lithium-Ion Cell Type: Cylindrical Lithium-Ion Configuration: 6S5P Nominal Voltage: 22.2V

Maximum Charging Voltage: 25.2V Capacity: 22500mAh / 22.5Ah Nominal Energy: Approximately

499.5Wh 3C-class configuration Rechargeable lithium-ion technology Suitable for custom BMS

and connector configurations 6S5P Battery Configuration This battery pack contains 30 DMEGC

cells arranged in a 6S5P configuration: 6 cells/groups connected in series 5 cells connected

in parallel per group Total cells = 6 ×5 = 30 cells Capacity = 5 ×4.5Ah = 22.5Ah Nominal

voltage = 6 ×3.7V = 22.2V Maximum charge voltage = 6 ×4.2V = 25.2V Nominal energy = 22.2V

×22.5Ah = 499.5Wh 3C Lithium-Ion Configuration For a theoretical 3C calculation: 22.5Ah ×

3C = 67.5A The 67.5A value is a theoretical cell-based calculation, not necessarily the

final continuous discharge rating of the battery pack. The actual safe operating current

should be determined by the selected BMS and complete pack design. BMS Protection A suitable

6S NMC Lithium-Ion BMS can provide: Overcharge protection Over-discharge protection

Over-current protection Short-circuit protection Over-temperature protection Cell balancing

Charging and discharging protection The BMS current rating should be selected according to

PRODUCT DATASHEET

the application's continuous and peak current requirements. Applications The DMEGC 6S 22.2V 22.5Ah battery pack can be used for: Electric scooters Electric bikes and mobility systems Robotics Portable power equipment Industrial equipment Backup power systems Custom EV projects DC power systems DIY lithium battery projects OEM battery applications Advantages 22.5Ah high-capacity configuration Approximately 499.5Wh nominal energy 6S5P configuration Uses high-capacity cylindrical lithium-ion cells Suitable for extended-runtime applications Rechargeable NMC battery technology Custom BMS options available Suitable for OEM and custom battery-pack projects Package Includes 1 ×DMEGC 6S5P 22.2V 22.5Ah Lithium-Ion Battery Pack BMS according to selected configuration Battery interconnects and wiring 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 a charger designed for a different series configuration. Always use a correctly rated BMS and charger