

DMEGC 6S 22.2V 58500mAh (58.5Ah) 6S13P 3C Lithium-Ion Rechargeable Battery Pack

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Brand DMEGC Chemistry NMC Lithium-Ion Cell Format Cylindrical Cell
Capacity 4500mAh Configuration 6S13P Total Number of Cells 78 Nominal Voltage 22.2V Maximum
Charge Voltage 25.2V Battery Capacity 58.5Ah / 58500mAh Nominal Energy ~1298.7Wh Series
Groups 6 Parallel Cells per Group 13 Cell Nominal Voltage 3.7V Cell Discharge Rating Up to
3C* Dimension/weight 81*291*145mm / 5.46kg BMS JBD HARDWARE BMS

TECHNICAL SPECIFICATIONS

Nominal Voltage: 22.2V
Capacity: 58500mAh
Energy: 1298.7Wh
Chemistry: Lithium-Ion
Maximum / BMS Current: 175.5A
Charging Voltage: 25.2V
Product Category: 6 Cell 24V Li-Ion Battery Pack (22.2V~25.2V)

PRODUCT DESCRIPTION

DMEGC 6S 22.2V 58500mAh (58.5Ah) 6S13P 3C Lithium-Ion Rechargeable Battery Pack The DMEGC 6S
22.2V 58500mAh (58.5Ah) Lithium-Ion Rechargeable Battery Pack is a high-capacity NMC
lithium-ion battery pack configured in 6S13P, using DMEGC 4500mAh cylindrical lithium-ion
cells. With a 22.2V nominal voltage and 58.5Ah capacity, this battery provides approximately
1298.7Wh (1.30kWh) of nominal energy. The 6S13P configuration is designed for applications
requiring high capacity, extended runtime, and reliable rechargeable power. Key Features
Brand: DMEGC Battery Chemistry: NMC Lithium-Ion Cell Type: Cylindrical Lithium-Ion Cell
Capacity: 4500mAh Configuration: 6S13P Nominal Voltage: 22.2V Maximum Charging Voltage:
25.2V Capacity: 58500mAh / 58.5Ah Nominal Energy: Approximately 1298.7Wh Total Cells: 78
3C-class configuration Rechargeable lithium-ion technology Suitable for custom BMS and
connector configurations 6S13P Battery Configuration The battery pack contains 78 DMEGC
cells arranged in a 6S13P configuration: 6 cells/groups connected in series = 6S 13 cells
connected in parallel per group = 13P Total cells = 6 ×13 = 78 cells Capacity = 13 ×4.5Ah
= 58.5Ah Nominal voltage = 6 ×3.7V = 22.2V Maximum charge voltage = 6 ×4.2V = 25.2V
Nominal energy = 22.2V ×58.5Ah = 1298.7Wh 3C Lithium-Ion Configuration The theoretical 3C
current calculation is: 58.5Ah ×3C = 175.5A The 175.5A figure is a theoretical cell-based
calculation and should not automatically be considered the continuous discharge rating of
the finished battery pack. The actual current capability depends on the selected BMS, cells,
interconnects, wiring, connectors and thermal 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

PRODUCT DATASHEET

discharging protection The BMS should be selected according to the application's required continuous and peak current. Applications The DMEGC 6S 22.2V 58.5Ah battery pack is suitable for: Electric scooters Electric bikes Robotics Portable power systems Industrial equipment Backup power systems Custom EV projects DC power systems DIY lithium battery projects OEM battery applications Advantages 58.5Ah high-capacity battery Approximately 1298.7Wh / 1.30kWh nominal energy 6S13P configuration Uses high-capacity cylindrical lithium-ion cells Suitable for extended-runtime applications Rechargeable NMC battery technology Custom BMS and connector options available Suitable for OEM and custom battery-pack projects Package Includes 1 xDMEGC 6S13P 22.2V 58.5Ah 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.