

DMEGC 20S 72V 31500mAh (31.5Ah) 20S7P 3C Lithium-Ion Rechargeable Battery Pack

SKU / Model: Not specified

PRODUCT OVERVIEW

Specification Details Cell Brand DMEGC Battery Chemistry Lithium-Ion / NMC Cell Type 21700 Configuration 20S7P Total Cells 140 Nominal Voltage 72V Maximum Charge Voltage 84V Capacity 31500mAh (31.5Ah) Cell Capacity 4500mAh Nominal Energy Approx. 2268Wh (2.268kWh) Cell Rating 3C* BMS JBD HARDWARE BMS BMS Type 20S NMC Connector Custom / As Required Dimension/weight 235*159*145 / 9.8kg Applications EV, E-Bike, Scooter, Motorcycle, Robotics & Industrial

TECHNICAL SPECIFICATIONS

Nominal Voltage: 72V
Capacity: 31500mAh
Energy: 2268Wh
Chemistry: Lithium-Ion
Charging Voltage: 84V
Product Category: 20 Cell 72V Li-Ion Battery Pack (74V~84V)

PRODUCT DESCRIPTION

DMEGC 20S 72V 31500mAh (31.5Ah) 20S7P 3C Lithium-Ion Rechargeable Battery Pack The DMEGC 20S 72V 31500mAh (31.5Ah) 20S7P 3C Lithium-Ion Rechargeable Battery Pack is a high-capacity NMC Lithium-Ion battery pack designed for high-voltage electric mobility, energy storage, robotics, and industrial applications. Built in a 20S7P configuration, the battery contains 140 cells, arranged as 20 series groups with 7 cells connected in parallel in each group. Using 4500mAh DMEGC cells, the pack provides 72V nominal voltage and 31.5Ah capacity, delivering approximately 2.268kWh of nominal energy. This battery pack is suitable for 72V e-bikes, electric scooters, electric motorcycles, EVs, robotics, industrial equipment, energy storage systems, and custom OEM applications. Key Features DMEGC Lithium-Ion Cells NMC Lithium-Ion Chemistry 20S7P Configuration 72V Nominal Voltage 31500mAh / 31.5Ah Capacity 140 Cells in 20S7P configuration 3C Cell Configuration Approximately 2.268kWh Nominal Energy Rechargeable Battery Pack High-Voltage Battery Design Suitable for EV & E-Mobility Applications BMS Protection Available Custom Connector & Enclosure Options Suitable for OEM & Custom Battery Manufacturing 20S7P Battery Configuration The battery pack consists of: 20 Series x7 Parallel = 140 Cells Each parallel group: 7 x4500mAh = 31500mAh (31.5Ah) Nominal Voltage 20 x3.6V = 72V Maximum Charging Voltage 20 x4.2V = 84V Nominal Energy 72V x31.5Ah = 2,268Wh Therefore, the battery provides approximately 2.268kWh of nominal energy. 3C Lithium-Ion Configuration The 3C specification refers to the discharge capability of the selected DMEGC cells. The 7P configuration increases the available current capability of each series group compared with a single cell. The actual continuous and peak current rating of the finished battery should be determined according to the cell specifications, BMS rating, interconnect design, wiring, connectors, thermal management, and vehicle/controller

PRODUCT DATASHEET

requirements. BMS Protection A suitable 20S NMC BMS can provide: Overcharge Protection
Over-Discharge Protection Over-Current Protection Short-Circuit Protection Cell Voltage
Monitoring Cell Balancing Temperature Monitoring Charging & Discharging Protection For this
72V-class battery, the BMS and charger should be specifically selected for a 20S NMC
configuration. The maximum charger output should be 84V. Applications The DMEGC 20S 72V
31.5Ah Lithium-Ion Battery Pack is suitable for: 72V E-Bikes Electric Scooters Electric
Motorcycles Electric Vehicles High-Voltage E-Mobility Robotics AGV Systems Industrial
Equipment Portable Power Systems Energy Storage Systems Custom EV Battery Systems OEM
Battery Applications Advantages 31.5Ah high-capacity battery design 20S7P configuration
140-cell battery configuration Approximately 2.268kWh nominal energy 72V nominal / 84V fully
charged DMEGC NMC lithium-ion cell configuration Suitable for high-voltage applications
Multiple BMS options Custom wiring and connector options Suitable for OEM and bulk battery
manufacturing Package Includes 1 ×DMEGC 20S 72V 31500mAh (31.5Ah) 20S7P 3C Lithium-Ion
Rechargeable Battery Pack