

LIONBATTERY

TECHNICAL DATA SHEET

DMEGC 3S 11.1V 7800mAh 3S3P 3C Lithium-Ion Rechargeable Battery Pack

1. Product Overview

The DMEGC 3S 11.1V 7800mAh 3S3P 3C Lithium-Ion Rechargeable Battery Pack is a 3-series, 3-parallel (3S3P) NMC lithium-ion battery pack assembled using DMEGC 3.7V 2600mAh 18650-size cells. The pack is suitable for applications requiring a compact rechargeable lithium-ion power source.

2. Technical Specifications

Specification	Details
Product Name	DMEGC 3S 11.1V 7800mAh 3S3P 3C Lithium-Ion Rechargeable Battery Pack
Battery Chemistry	Lithium-Ion / NMC
Cell Brand	DMEGC
Cell Type	18650 Cylindrical Cell
Cell Specification	DMEGC 3.7V 2600mAh
Cell Configuration	3S3P
Total Number of Cells	9 Cells
Nominal Voltage	11.1V
Maximum Charging Voltage	12.6V
Nominal Capacity	7800mAh (7.8Ah)
Cell Discharge Rating	3C
BMS	3S 10A BMS
BMS Balancing	Without Balancing
Temperature Protection	NTC Temperature Sensor
Interconnection	Nickel Strip
Output Wire	18 AWG Silicone Wire
Output Connector	XT30 Female Connector
Approx. Dimensions	60 × 60 × 70 mm
Approx. Weight	450 g
Cycle Life	Up to 1200 Cycles*

3. Battery Configuration

Parameter	Value
Series Connection	3 Cells in Series (3S)
Parallel Connection	3 Cells in Parallel (3P)
Configuration	3S3P
Cell Count	9 × DMEGC 18650 2600mAh cells
Capacity Calculation	2600mAh × 3P = 7800mAh
Voltage Calculation	3.7V × 3S = 11.1V nominal

4. BMS, Wiring & Connector

- 3S 10A Battery Management System (BMS).
- BMS configuration is non-balancing.
- NTC temperature sensor is included for temperature monitoring/protection.
- Nickel strip is used for cell interconnection.
- 18 AWG silicone output cable is provided.

- Output is terminated with an XT30 female connector.

5. Mechanical Specifications

- Battery Pack Size: 60 × 60 × 70 mm (Approx.)
- Pack Weight: 450 g (Approx.)
- Actual dimensions and weight may vary slightly depending on insulation, wiring, connector and assembly.

6. Charging & Operating Information

- Use a dedicated 12.6V CC/CV lithium-ion charger suitable for a 3S NMC battery pack.
- Do not charge above 12.6V.
- Do not short-circuit the battery pack.
- Operate and charge within the limits specified by the battery/BMS design.
- Keep the battery away from excessive heat, water and mechanical damage.

7. Notes

* The stated cycle life of up to 1200 cycles is an approximate value and depends on charging/discharging conditions, current, temperature, depth of discharge and storage conditions.

The 3C rating refers to the specified DMEGC cell configuration; the actual pack output current is limited by the selected 3S 10A BMS and complete pack design.

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