



***EV NMC 51.8V 39Ah
Lithium Ion Battery***

Lithium Ion Battery (NMC)



Cost
saving



Quick
charging



3 years
warranty



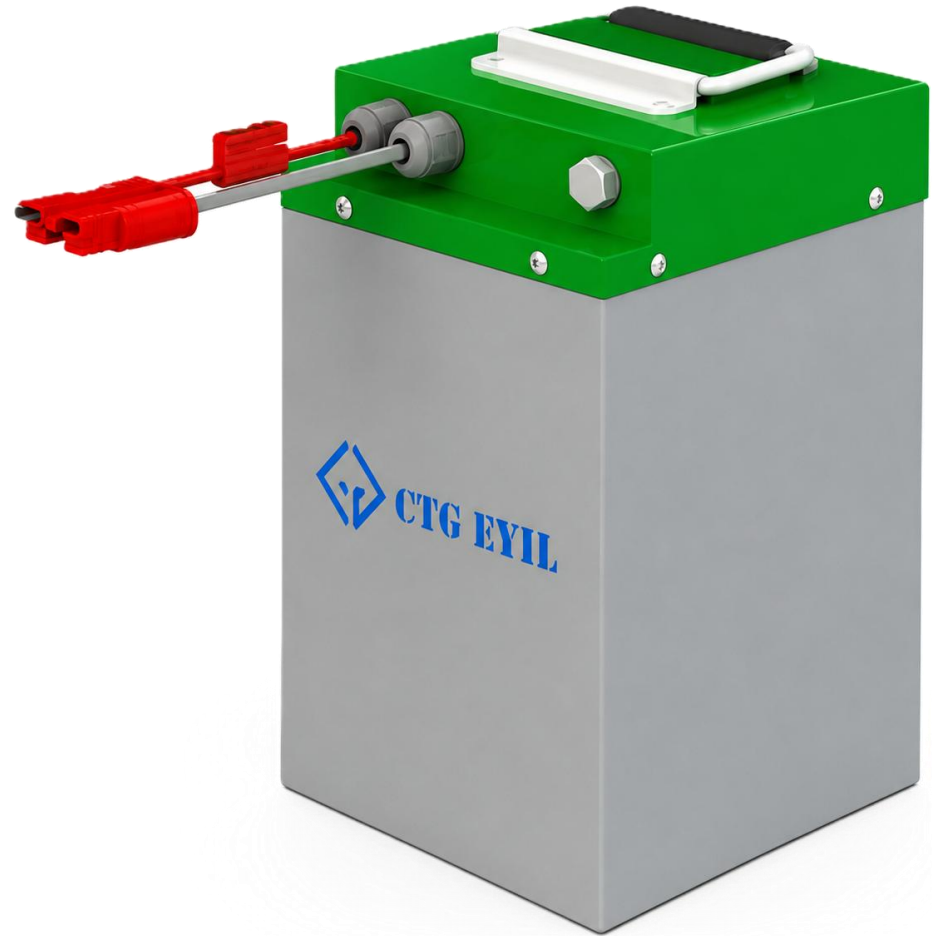
Drop in
Replacement



Visual
Management



Long
Working
Time



Introduction to CTG Lithium-Ion Battery

Welcome to CTG's Lithium-Ion Battery Datasheet. At CTG, we are proud to offer high-performance lithium-ion batteries designed to meet the diverse needs of our customers. Our batteries are engineered using cutting-edge technology and the highest quality materials to ensure superior energy storage solutions for a wide range of applications.

Key Features and Benefits

High Energy Density: Our lithium-ion batteries provide excellent energy density, allowing for longer runtime and reduced weight, making them ideal for Electric Vehicles.

Long Cycle Life: With an extended cycle life, CTG batteries deliver reliable performance and longevity, reducing the need for frequent replacements.

Safety: Safety is our top priority. Our batteries incorporate advanced safety features to protect against overcharging, overheating, and short circuits.

Sustainability: We are committed to sustainability. Our batteries are designed to be environmentally friendly, with a focus on reducing the carbon footprint and promoting green energy solutions.

Technical Specifications

DESCRIPTIONS	SPECIFICATIONS
Battery Model	NMC51.8V39AH
Configuration	14S10P
Operation Voltage (V)	39.2V to 58.8V
Energy Density (KWh)	2.020 KWh
Charging Method	CC-CV
Standard Charging Current	0.3C
Max Continuous Discharging Current	1C
Pulse Discharge Current	3C @ 10 sec
Operating Temperature Range	0°C to 55°C (Charging) / -20° to +60°C (Discharging)
Recommended Storage Temp Range	15° to 35°C
BMS Rating	NMC 14S40A
Cycle Life	1000 Cycle (90% DOD)
Humidity	0 to 90%
Enclosure Dimension (L*W*H) mm	HA 158*156*339
Battery Casing	Metal Case
IP Rating	IP 65
Total Weight (kg)	10 Kg
Battery Warranty	3 Years (Refer CTG Warranty Document)

BMS Specifications

DESCRIPTIONS	SMART BMS	HARDWARE BMS
Over Voltage Protection	Yes	Yes
Under Voltage Protection	Yes	Yes
Over Charge Protection	Yes	Yes
Deep Discharge Protection	Yes	Yes
Short Circuit Protection	Yes	Yes
Over Temperature Protection	Yes	Yes
Equalization	Active & Passive Balancing	Passive Balancing
IOT(Bluetooth/GPS/GPRS)	Optional	NA
Communication Interface	CAN,UART,RS485	NA
Audio Visual Warning System	Yes	NA
Cycle Count	Yes	NA
Real Time Monitoring Health Status	Yes	NA

Safety Features

- **Safety First:** Highest safety achieved through advanced battery pack design, rigorous testing, detailed analysis, cell characterization, and a cutting-edge Battery Management System (BMS).
- **Protective Circuitry:** Built-in protection circuits prevent overcharging, over-discharging, overcurrent, and short circuits, ensuring reliable battery performance.
- **Thermal Shutdown:** Automatically shuts down the battery system if the operating temperature exceeds safe limits, preventing overheating
- **Current Interrupt Device (CID):** Instantly disconnects the battery internally when excessive current or abnormal pressure is detected.
- **Thermal Fuse:** Automatically disconnects the battery if the temperature rises beyond the safe operating range.
- **Fire-Resistant Materials:** Constructed with flame-retardant and fire-resistant materials to minimize fire risks and enhance user safety.
- **Pressure Relief Vent:** Safely releases internal gas buildup during abnormal conditions, reducing pressure and preventing battery damage.



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