

51V 100Ah Flatpack Battery Module

GTO Series Batteries

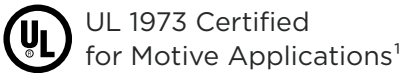


CAT # GTO51V100A-E1914



Battery Details

100Ah at 51.2V
5,120 Watt-Hours



KEY BENEFITS

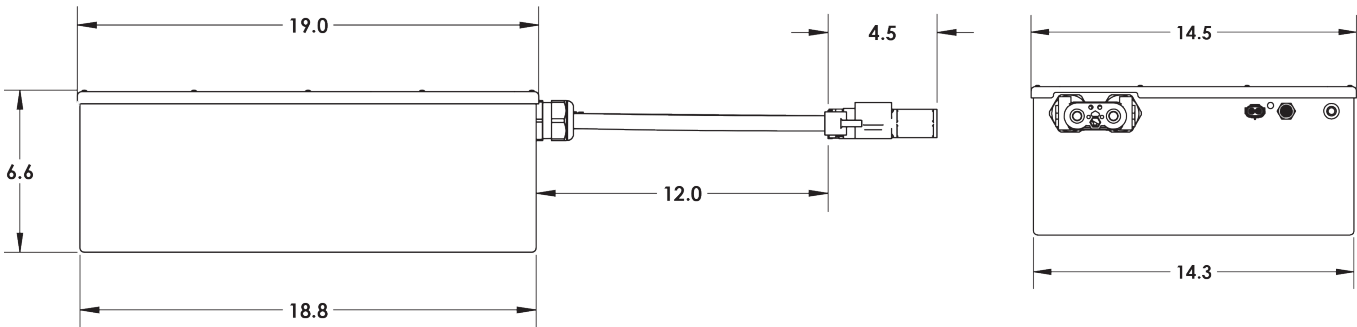
- + **Cell-Level Safety:** Premium matched Lithium Iron Phosphate (LiFePO₄) Cells optimized for safety and long cycle life
- + **NeverDie® Battery Management System:** Smart BMS technology continuously monitors and protects to maximize battery lifespan
- + **Fire & Crush Tested:** Aluminum Alloy Enclosure meets UL 1973 Certification

Reliable Power, Unmatched Versatility

Our batteries feature easy expandability for extended run times and deliver dependable performance, even in extreme temperatures.

DIMENSIONS

Size (L x W x H)	19.0" x 14.5" x 6.6"	482.6mm x 368.3mm x 167.6mm)
Weight	93.0lbs	42.2kg



SPECIFICATIONS

NOMINAL VOLTAGE AND CAPACITY

51.2V 100Ah 5,120Wh

SHIPPING

UN3480, Class 9

CERTIFICATIONS

UNDOT	UN38.3
UL	UL1973 (battery assembly), UL1642, UL1973 (cells)

INTERNAL HEATER

Power Rating	70W
Nominal Input Voltage	12V
Input Current	5.8A
Thermostat On/Off (Internal)	<43°F (6°C) On, >48°F (9°C) Off

MECHANICAL

Mounting Orientation	Upright position only (black lid up)
Enclosure Material	0.09"Aluminum 5052
Enclosure Corrosion Protection	Iridite Chromate Conversion Coating + Powdercoat Paint
Ingress Protection	IP66

STORAGE

Refer to the Lithionics® Website for the Storage Procedure

ELECTRICAL

Internal Resistance	<6mΩ
Coulombic Efficiency	99%
Self-Discharge Rate (per month)	<3%
Cell Type	LiFePO ₄ Prismatic Cells
Power Connection	Anderson A320 Female
Series Connection	Supported when paired with a compliant BMS

CHARGE

Charge Voltage	57.6V ±0.8V
Operating Temperature Range	32°F (0°C) to 140°F (60°C) (Ambient -4°F (-20°C) with Heater Power)
Recommended Charge Current	<50A
Float Voltage	54.4V ±0.8V
Max Charge Current ²	<100A

DISCHARGE

Operating Voltage Range	46.4V to 57.6V ±0.8V
Operating Temperature Range	-4°F (-20°C) to 140°F (60°C)
Recommended Discharge Current	<50A
Max Discharge Current ²	<100A
Pulse Current (1 second)	<1,000A
Low Voltage Cut-Off	46.4V ±0.8V

1. UL 1973 Certified: Battery is UL 1973 Certified when used with external circuit breaker and ampseal connector.
2. Maximum charging and discharging rates dependent upon the ambient temperature and usage. UL1973 testing: Maximum charge and discharge currents were tested at 25°C/77°F.

CAT # NDV9

BMS Advanced Features

- External Battery Management System (BMS) for enhanced safety and monitoring
- Bluetooth connectivity for real-time diagnostics
- State-of-Charge (SoC) monitoring to prevent unexpected shutdowns
- High current capability up to 400A for versatile applications
- Remote monitoring app (Google Play and Apple App Store)

BMS required.
Sold separately.



DS-014