

51V 100Ah FLATPACK BATTERY MODULE

GTO SERIES

CAT # GTO51V100A-E1914



Battery Details

100Ah at 51.2V

5,120 Watt-Hours



UL 1973 Certified for
Motive Applications

Key Benefits

- ✓ Safe, Non-Toxic Lithium Iron Phosphate Cells
- ✓ NeverDie® Battery Management System Maximizes Lifespan
- ✓ Fire and Crush Tested Aluminum Alloy Enclosure

Reliable Power, Unmatched Versatility

Our battery system features easy expandability for extended run times and delivers dependable performance, even in extreme temperatures.

DIMENSIONS

Size (L x W x H):

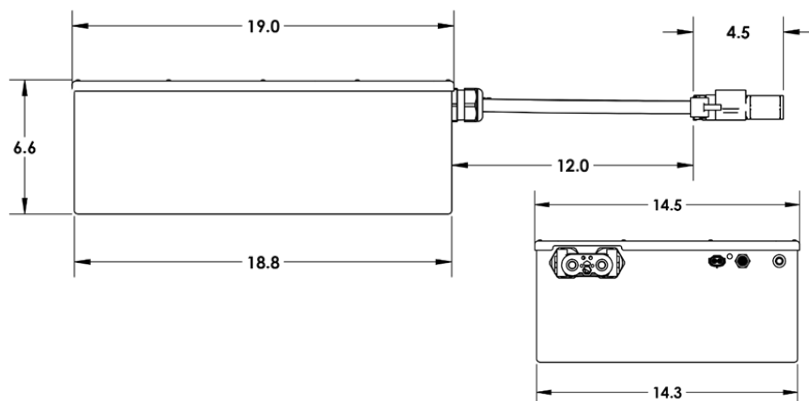
19.0" x 14.5" x 6.6"

(482.6mm x 368.3mm x 167.6mm)

Weight:

93lbs

(42.2kg)



SPECIFICATIONS

NOMINAL VOLTAGE AND CAPACITY

51.2V 100Ah 5,120Wh

SHIPPING

UN3480, Class 9

CERTIFICATIONS

UNDOT: UN38.3

UL: UL1973(battery assembly),
UL 1642, UL1973 (cells)

INTERNAL HEATER

Power Rating: 70W

Nominal Input Voltage: 12V

Input Current: 5.8A **Thermostat**

Activation and Deactivation

(Internal): <43°F (6°C) On, >48°F (9°C) Off

STORAGE

Refer to the Lithionics® Website for the Storage Procedure

DISCHARGE

Operating Voltage Range:

46.4V to 57.6V $\pm 0.8V$

Operating Temperature Range:

-4°F (-20°C) to 140°F (60°C)

Recommended Discharge

Current: <50A

Max Discharge Current: <100A

Pulse Current (1 second):

<1,000A

Low Voltage Cut-Off: 46.4V

$\pm 0.8V$

CHARGE

Charge Voltage:

57.6V $\pm 0.8V$

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 $\pm 0.8V$

Max Charge Current: <100A

*Charging and discharging rates vary with temperature and usage

*UL1973 testing: Maximum charge and discharge currents were tested at 25°C/77°F

ELECTRICAL

Internal Resistance: <6mΩ

Coulombic Efficiency: 99%

Self-Discharge Rate (per month):
<3%

Cell Type: LiFePO₄ Prismatic Cells

Power Connection: Anderson
A320 Female

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

Powering Innovation.

Discover the right lithium replacement system for you. Reach out to Lithionics' expert support team to find your perfect power solution.

**APPLICATION NOTE: EXTERNAL BMS REQUIRED.
BMS SOLD SEPARATELY.**

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)



CAT # NDV9