

51V 165Ah BATTERY MODULE

GTO SERIES

CAT # GTO51V165A-F3020



Battery Details

165Ah at 51.2V
8,448 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 meeting UL 1973 Certification

Reliable Power, Unmatched Versatility

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

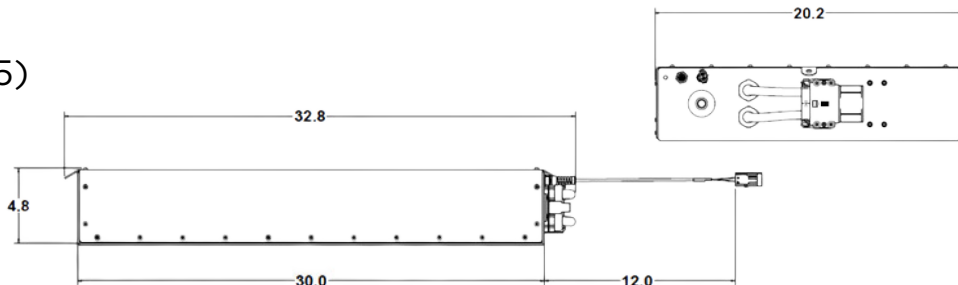
DIMENSIONS

Size (L x W x H):

30.0" x 20.2" x 4.8"
(762.0 x 513.1 x 124.5)

Weight:

150lbs
(68kg)



SPECIFICATIONS

VOLTAGE AND CAPACITY

51.2V 165Ah 8,448Wh

SHIPPING

UN3480, Class 9

CERTIFICATIONS

UN38.3, UL1973 (battery assembly) UL 1642, UL1973 (cells)

INTERNAL HEATER

70W Power Rating
12V Nominal Input Voltage
5.8A Input Current
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

APPLICATION NOTE: EXTERNAL BMS REQUIRED. BMS SOLD SEPARATELY.

ELECTRICAL

<7mΩ Resistance
99% Coulombic Efficiency
<3% Self-Discharge Rate (per month).
Prismatic, LiFePO₄ Cells
Power Connection:
Anderson A320 Female

DISCHARGE

46.6V to 57.6V ±0.8V
-22 to 140°F (-30 to 60°C)
<82.5A Recommended Discharge Current
<150A Discharge Current
<1,500A Pulse Current (1 second)
46.6V ±0.8V Cut-Off Voltage

*Charging and discharging rates vary with temperature and usage

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

MECHANICAL

Mounting Orientation: Upright position only (black lid up)
Aluminum 5052.090" Enclosure
Military Grade Corrosion Protection Enclosure
Ingress Protection: IP66

CHARGE

57.6 V ±0.8V
32°F to 140°F (0 to 60°C)
-4°F (-20°C) with Heater Power Connected.
<82.5A Recommended Charge Current.
54.5V ±0.8V Float Voltage
<150A Charge Current

Powering Innovation.

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

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