# **51V 165Ah BATTERY MODULE** GTO SERIES

#### CAT # GTO51V165A-F3020



#### **Battery Details**

165Ah at 51.2V 8,448 Watt-Hours



## **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.

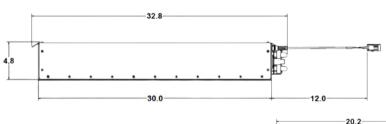
### **DIMENSIONS**

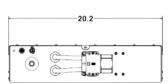
#### Size (L x W x H):

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

#### Weight:

150lbs (68kg)







# NOMINAL VOLTAGE AND CAPACITY

51.2V 165Ah 8,448Wh

#### **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 +0.8V

**Operating Temperature Range:** 

-4 (-20°C) to 140°F (60°C)

**Recommended Discharge** 

Current: <82.5A

Max Discharge Current: <150A

Pulse Current (1 second):

<1,500A

Low Voltage Cut-Off: 46.4V

+0.8V

#### **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:** 

<82.5A

Float Voltage: 54.4V +0.8V Max

Charge Current: <150A

\*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:  $<7m\Omega$ Coulombic Efficiency: 99%

Self-Discharge Rate (per month):

<3%

**Cell Type:** LiFePO<sub>4</sub> Prismatic Cells **Power Connection:** Anderson

A320 Female

#### **MECHANICAL**

**Mounting Orientation:** Upright position only (horizontal)

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