

# 12V 640Ah Battery Module

## GTX Series Batteries



CAT # GTX12V640A-E2112



### 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.

### Battery Details

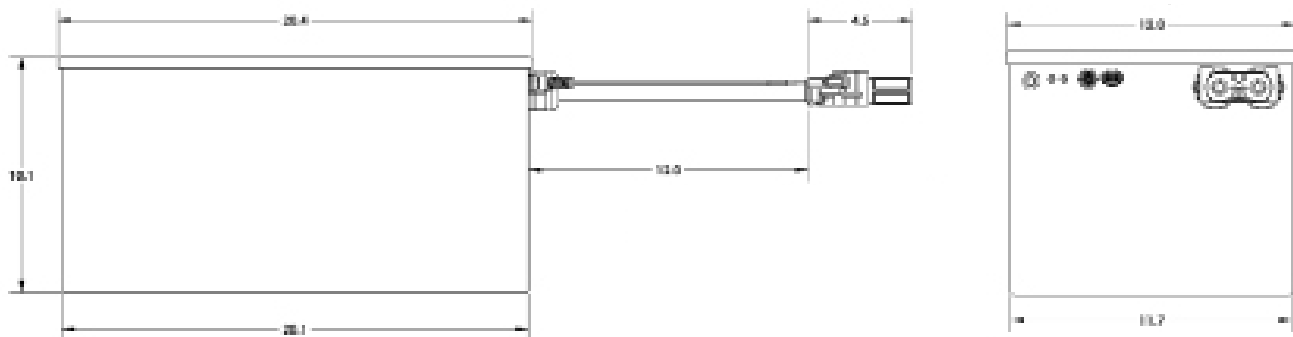
640Ah at 12.8V  
8,192 Watt-Hours



UL 1973 Certified  
for Motive Applications

### DIMENSIONS

Size (L x W x H)	20.4" x 12.0" x 10.1"	518.6mm x 304.8mm x 256.5mm
Weight	140.0lbs	63.5kg



# SPECIFICATIONS

## NOMINAL VOLTAGE AND CAPACITY

12.8V 640Ah 8,192Wh

## 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 <2mff

Coulombic Efficiency 99%

Self-Discharge Rate (per month) <3%

Cell Type LiFePO<sub>4</sub> Prismatic Cells

Power Connection Anderson A320 Female

Series Connection Supported when paired with a compliant BMS

## CHARGE

Charge Voltage 14.4V 30.2V

Operating Temperature Range 32°F (0°C) to 140°F (60°C) (Ambient -4°F (-20°C) with Heater Power)

Recommended Charge Current <300A

Float Voltage 13.6V 30.2V

Max Charge Current <375A

## DISCHARGE

Operating Voltage Range 11.6V to 14.4V 30.2V

Operating Temperature Range -4°F (-20°C) to 140°F (60°C)

Recommended Discharge Current <300A

Max Discharge Current <375A

Pulse Current (1 second) <3,750A

Low Voltage Cut-Off 11.6V 30.2V

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-008