

51V 315Ah Battery Module

GTX Series Batteries



CAT # GTX51V315A-F4113



Battery Details
315Ah at 51.2V
16,128 Watt-Hours

 UL 1973 Certified
for Motive Applications¹

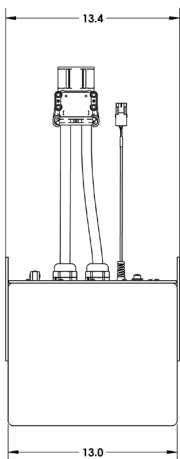
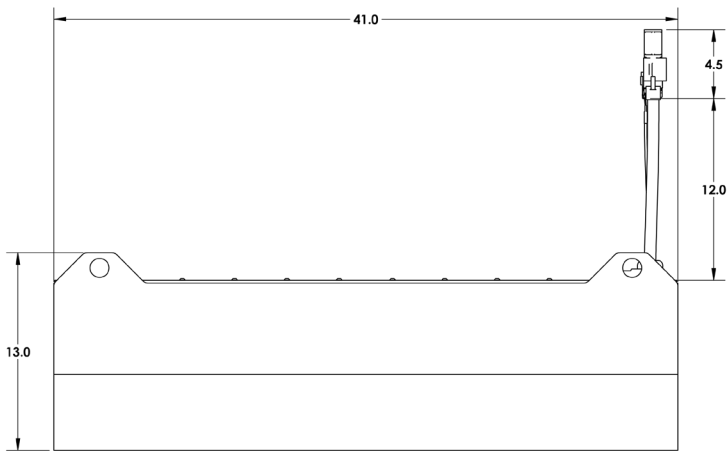
KEY BENEFITS

- + **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)	41.0" x 13.4" x 13.0"	1,041.4mm x 339.6mm x 330.2mm)
Weight	302.0lbs	137.0kg



SPECIFICATIONS

NOMINAL VOLTAGE AND CAPACITY

51.2V 315Ah 16,128Wh

SHIPPING

UN3480, Class 9

CERTIFICATIONS

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

INTERNAL HEATER

Power Rating	140W
Nominal Input Voltage	12V
Input Current	11.7A
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	<157.5A
Float Voltage	54.4V ±0.8V
Max Charge Current ²	<315A

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	<157.5A
Max Discharge Current ²	<315A
Pulse Current (1 second)	<3,150A
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-017