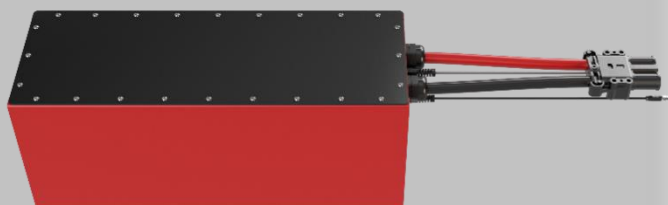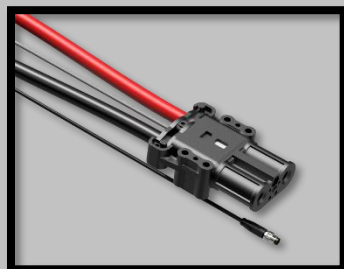# LITHIONICS BATTERY®

LITHIUM ION IRON PHOSPHATE BATTERY SYSTEMS

Li³⁺

MODEL NUMBER:
GTX51V110A-F27-DIN-MODULE

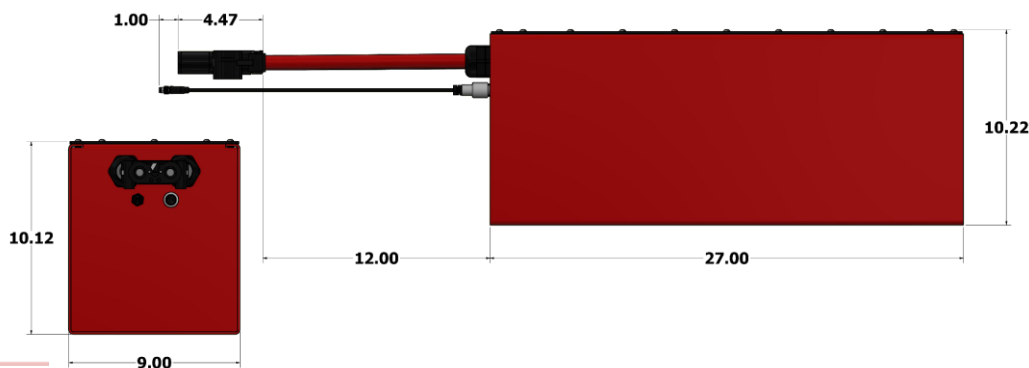**EXTERNAL BMS VERSION**

EXTERNAL BMS REQUIRED

BMS SOLD SEPARATELY. SEE BMS DATA SHEET PROVIDED BY LITHIONICS BATTERY®.

Item		Description
Model		GTX51V110A-F27-MODULE
Nominal Voltage		51.2
Nominal Capacity		110
Nominal Watt Hours		5632
Internal Resistance		<300 milliohms
Charge		
Charging temperature range		32F/0C to 131F/55C
Charge voltage		57.6
Recommended float charge voltage(for standby use)		53.6
Recommended charge current*		50
Allowed max charge current*		100
Discharge		
Discharging temperature range		-4F/-20C to 131F/55C
Operating Voltage Range		46.4 to 53.6
Recommended discharge current*		50
Max discharge current*		200
Pulse discharge current		1000
Discharge cut-off voltage		NeverDie® Power Reserve @ 48.00 Low-Voltage Cut-Off @46.4
Mechanical		
Dimensions		Length 27.0"
		Width 9.0"
		Height 10.2"
Weight		Approx. 98lbs (44.5kg)
Storage		
Storage Temperature & Humidity Range	< 1 Month	-4~95°F (-20~35°C), 45~75%RH
	< 3 Months	14~86°F (-10~30°C), 45~75%RH
	Recommended storage	59~95°F (15~35°C), 45%RH~75%RH
Long Term Storage		If the battery needs to be stored for > 3 months the voltage should be 52.8V (50%SOC), and stored at the recommended storage specifications shown above. Additionally, the battery needs at least one charge & discharge cycle every six months.
Self-discharge rate	Residual capacity	≤3% per month; ≤15% per year
	Reversible capacity	≤1.5%per month; ≤8% per year

* Maximum charging and discharging rates apply depending upon the ambient temperature and duty cycle of the system. UL1973 tests of maximum charge and discharge current were performed at 25°C/77°F

NEVERDIE®

ENERGY

110 AMP HOURS

PULSE AMPS: 1000 (1 SEC)

5632 WATT-HOURS

51V
GTX SERIES