

# LITHIONICS BATTERY®

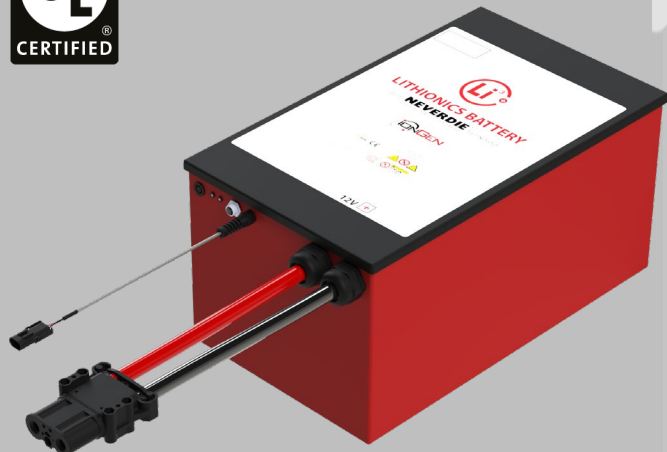
LITHIUM-ION IRON PHOSPHATE BATTERY SYSTEMS



MODEL NUMBER:  
GTX12V640A-E2112-DIN-HK-UL

Designed with Internal Heater Kit,  
Aluminum Alloy Enclosure

EXTERNAL BMS  
VERSION



**EXTERNAL BMS REQUIRED**

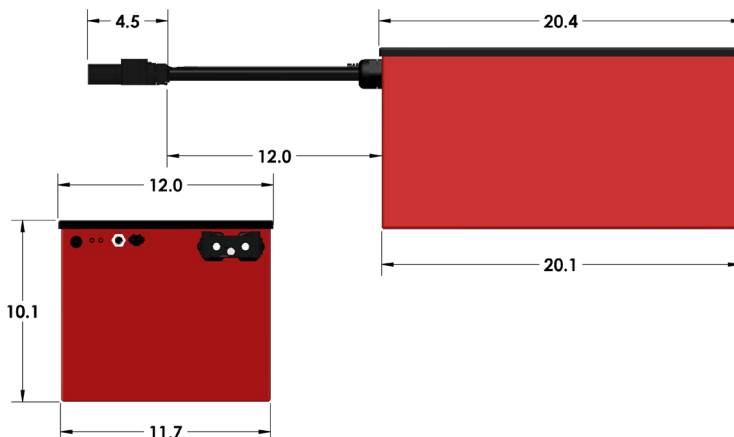
**BMS SOLD SEPARATELY. SEE BMS  
DATA SHEET PROVIDED BY LITHIONICS  
BATTERY®.**

Item	Description	
Model	GTX12V640A-E2112-DIN-HK-UL	
Nominal Voltage	12.8V	
Nominal Capacity (Ah)	640Ah	
Nominal Watt Hours	8192Wh	
Internal Resistance	< 3mΩ	
NOTE: Battery may not be connected in series to make 24 volts or higher.		
<b>Charge</b>		
Charging temperature range	32F/0C to 131F/55C OR -4F/-20C with Heater Kit	
Charge voltage	14.4V	
Recommended float charge voltage(for standby use)	13.4-13.6V	
Recommended max charge current*	200A	
Allowed max charge current*	300A	
<b>Discharge</b>		
Discharging temperature range	-4 to 140°F (-20 to 60°C)	
Operating Voltage Range	10.4-13.4V	
Recommended max discharge current*	300A	
Max discharge current*	350A	
Pulse discharge current (1 second)	2000A	
Discharge cut-off voltage	NeverDie® Power Reserve @ 12.0V Low-Voltage Cut-Off @10.4V	
<b>Mechanical</b>		
Dimensions	Length 20.4"	
	Width 12.0"	
	Height 10.1"	
Mounting Orientation	Upright position only (black lid faces up)	
Weight	Approx. 140lbs (63.0kg)	
<b>Storage</b>		
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
Long Term Storage	Recommended storage	59~95°F (15~35°C), 45%RH~75%RH
	If the battery needs to be stored for > 3 months the voltage should be 13.2V (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

**640 AMP HOURS**

**PULSE AMPS: 2000 (1 SEC)**

**8192 WATT-HOURS**

**WARNING**

1. LITHIUM BATTERIES ARE NOT DESIGNED FOR CHARGING IN SUB-FREEZING TEMPERATURES. CONTACT LITHIONICS BATTERY® FOR DETAILS ON OUR COLD WEATHER PACKAGE.
2. INSTALLATION: IT IS RECOMMENDED THAT MODULES BE INSTALLED BLACK LID UP.

NOTE: CONTACT LITHIONICS BATTERY® FOR A USER INSTALLATION GUIDE & STORAGE PROCEDURES. FOLLOW THE GUIDE TO ENSURE FITNESS OF USE & WARRANTY.

**12V  
GTX  
SERIES**