

# LITHIONICS BATTERY®

LITHIUM-ION IRON PHOSPHATE BATTERY SYSTEMS



MODEL NUMBER:  
GTX12V640A-E2112-DIN-HK

Designed with Internal Heater Kit,  
Aluminum Alloy Enclosure

EXTERNAL BMS  
VERSION



**EXTERNAL BMS REQUIRED**

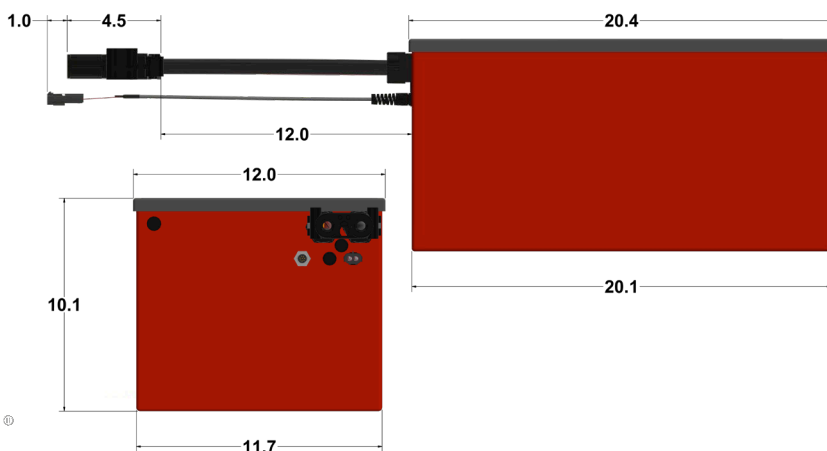
**BMS SOLD SEPARATELY. SEE BMS  
DATA SHEET PROVIDED BY LITHIONICS  
BATTERY®.**

Item	Description
Model	GTX12V640A-E2112-DIN-HK
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
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 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**