LITHIONICS BATTERY®

LITHIUM ION IRON PHOSPHATE BATTERY SYSTEMS

Li³⁺

MODEL NUMBER:
GTX12V275A-30H-DIN-MODULE

EXTERNAL BMS VERSION

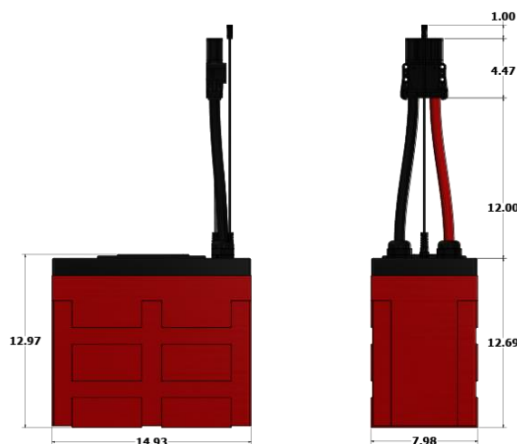**EXTERNAL BMS REQUIRED**

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

Item	Description	
Model	GTX12V275A-30H-DIN-MODULE	
Nominal Voltage	12.8	
Nominal Capacity	275	
Nominal Watt Hours	3520	
Internal Resistance	<300 milliohms	
Charge		
Charging temperature range	32F/0C to 131F/55C	
Charge voltage	14.6	
Recommended float charge voltage(for standby use)	13.4	
Recommended max charge current*	137.5	
Allowed max charge current*	275	
Discharge		
Discharging temperature range	-4F/-20C to 131F/55C	
Operating Voltage Range	11.6 to 13.4	
Recommended max discharge current*	200	
Max discharge current*	275	
Pulse discharge current	2750	
Discharge cut-off voltage	NeverDie® Power Reserve @ 12.00 Low-Voltage Cut-Off @11.60	
Mechanical		
Dimensions	Length 14.9"	
	Width 7.9"	
	Height 13.0"	
Weight	Approx. 43lbs (19.5kg)	
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 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®

1.00
4.47
12.00
12.97
12.69
14.93
7.98

ENERGY

275 AMP HOURS

PULSE AMPS: 2750 (1 SEC)

3520 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 BATTERIES BE INSTALLED CABLE OR TERMINAL SIDE UP.

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

12V GTX SERIES