LITHIONICS BATTERY®

LITHIUM ION IRON PHOSPHATE BATTERY SYSTEMS

Li³⁺

MODEL NUMBER:
GT51V150A-8D-DIN-MODULE

EXTERNAL BMS VERSION

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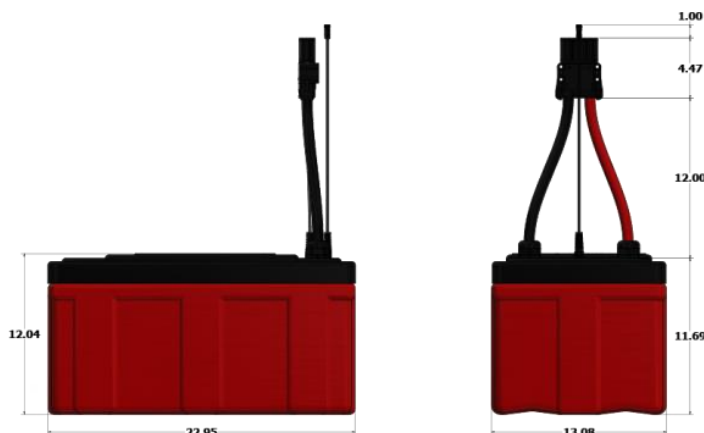
BMS SOLD SEPARATELY. SEE BMS DATA SHEET PROVIDED BY LITHIONICS BATTERY®.

Item	Description
Model	GT51V150A-8D-DIN-MODULE
Nominal Voltage	51.2
Nominal Capacity	150
Nominal Watt Hours	7680
Internal Resistance	<300 milliohms
Charge	
Charging temperature range	32F/0C to 113F/45C
Charge voltage	58.4
Recommended float charge voltage(for standby use)	53.6
Recommended max charge current*	75
Allowed max charge current*	150
Discharge	
Discharging temperature range	-4F/-20C to 131F/55C
Operating Voltage Range	46.4 to 53.6
Recommended max discharge current*	150
Max discharge current*	225
Pulse discharge current	1500
Discharge cut-off voltage	NeverDie® Power Reserve @ 48.00 Low-Voltage Cut-Off @46.4
Mechanical	
Dimensions	Length 22.95"
	Width 13.08"
	Height 12.04"
Weight	Approx. 150lbs (68.0kg)
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®

ENERGY

> 150 AMP HOURS
> PULSE AMPS: 1500 (1 SEC)
> 7680 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.

51V
GT SERIES