

LITHIONICS BATTERY®

LITHIUM-ION IRON PHOSPHATE BATTERY SYSTEMS



MODEL NUMBER:
GTO51V100A-E1914-DIN-HK | FLATPACK

High Energy Density Safe LFP, iONbus® Data Network,
UL Listed Internal Heating System, Fireproof Enclosure



EXTERNAL BMS REQUIRED

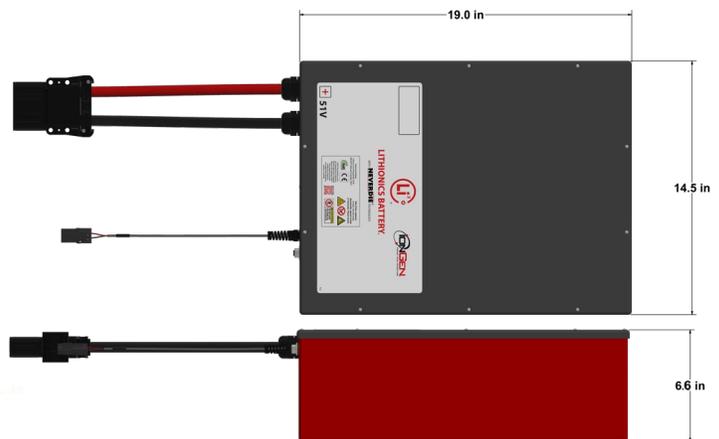
BMS SOLD SEPARATELY. SEE BMS DATA SHEET PROVIDED BY LITHIONICS BATTERY®.

Item	Description	
Model	GTO51V100A-E1914-DIN-HK	
Nominal Voltage	51.2V	
Nominal Capacity (Ah)	102Ah	
Nominal Watt Hours	5,222Wh	
Internal Resistance	<12mΩ	
Charge		
Charging temperature range	32 to 140°F (0 to 60°C), OR -4F to 140F (-20°C to 60°C) with Heater Kit	
Charge Voltage	57.6V	
Float Voltage	54.4V	
Maximum Charging Current	100A*	
Discharge		
Discharging temperature range	-4 to 140°F (-20 to 60°C)	
Operating Voltage Range	46.4-57.6V	
Maximum Discharge Current	100A*	
Pulse discharge current (30 second)	150A*	
Discharge cut-off voltage	NeverDie® Power Reserve @ 48.0V Low-Voltage Cut-Off @46.4V	
Internal Heater		
Power Rating	70W	
Input Voltage	12V	
Input Current	5.8A	
Mechanical		
Dimensions	Length 19.00" Width 14.50" Height 6.6"	
Mounting Orientation	Upright position only (black lid faces up)	
Ingress Protection	IP66	
Enclosure Material	Aluminum 5052-H32	
Weight	109 LBS (49.5kg)	
Storage		
Storage	< 1 Month	-4~95°F (-20~35°C), 45~75%RH
Temperature & Humidity Range	< 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

102 AMP HOURS
5222 WATT-HOURS

WARNING

SEE PAGE 2 "FRONT" VIEW FOR PERMITTED INSTALLATION ORIENTATION.

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

CAUTION! READ ALL INSTRUCTIONS BEFORE INSTALLATION, OPERATION, AND MAINTENANCE OF THIS BATTERY SYSTEM.



51V
GTO
SERIES

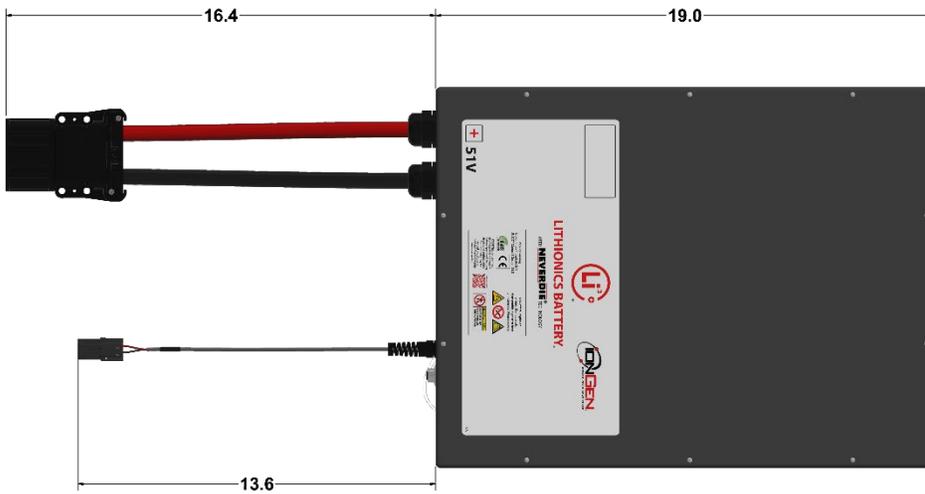
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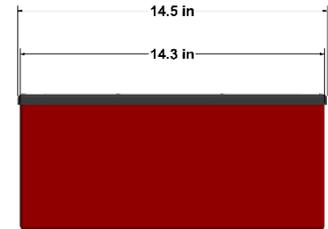


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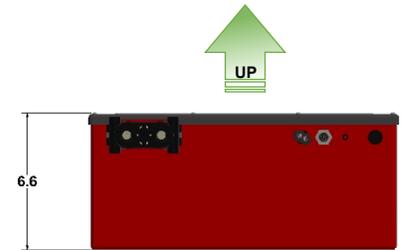
DIMENSIONS
& FEATURES



TOP VIEW



BACK VIEW



FRONT VIEW
(MOUNTING ORIENTATION)



SIDE VIEW

