

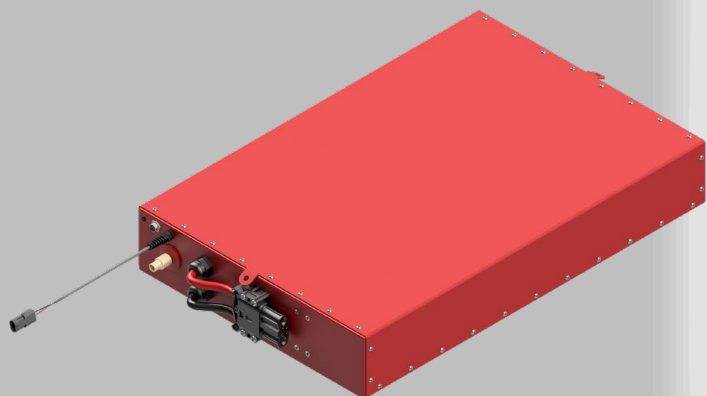
LITHIONICS BATTERY®

LITHIUM-ION IRON PHOSPHATE BATTERY SYSTEMS



MODEL NUMBER:
GTO51V165A-F3020-DIN

High Energy Density Safe LFP, iONbus® Data Network,
UL Listed Internal Heating System, Fireproof Enclosure,
UL1973: 2023 Listed



EXTERNAL BMS AND A160-A320 POWER HARNESS REQUIRED

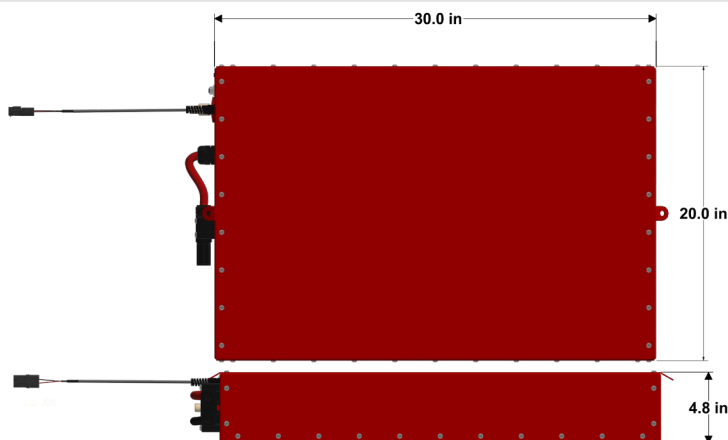
BMS SOLD SEPARATELY. SEE BMS DATA SHEET PROVIDED BY LITHIONICS BATTERY®.

Item	Description	
Model	GTO51V165A-F3020-DIN	
Nominal Voltage	51.2V	
Nominal Capacity	165Ah	
Nominal Watt Hours	8,448Wh	
Internal Resistance	<7mΩ	
DC Power Connection	Anderson A160	
Charge		
Charging Temperature Range (internal)	32 to 140°F (0 to 60°C), OR -4 to 140°F (-20 to 60°C) with Heater Kit	
Charge Voltage	57.6V	
Float Voltage	54.4V	
Maximum Charging Current*	150A	
Discharge		
Discharging Temperature Range (internal)	-22-140°F (-30-60°C)	
Operating Voltage Range	46.4-57.6V	
Maximum Discharge Current*	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 30" (33.0" overall) Width 20.2" Height 4.9"	
Weight	150lbs (68.0kg)	
Mounting Orientation	Lay Down Only, Do Not Invert	
Ingress Protection	IP66	
Enclosure Material	0.090" Aluminum 5052-H32	
Enclosure Corrosion Protection	Iridite Chromate Conversion Coating with Red Powdercoat Paint	
Anderson A160 1/4"-20 Mounting Bolt Torque	48in-lbs	
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 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

165 AMP HOURS
8448 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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DIMENSIONS
& FEATURES

