

LITHIONICS BATTERY®

LITHIUM ION IRON PHOSPHATE BATTERY SYSTEMS



MODEL NUMBER:
12V125A-G31-5CND-LRB

INTERNAL BMS
VERSION



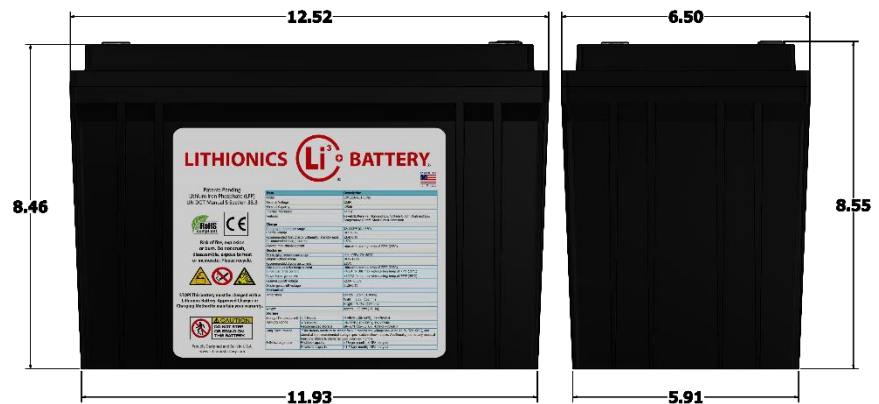
NEVERDIE®

Item	Description
Model	12V125A-G31-5CND-LRB
Nominal Voltage	12.8V
Nominal Capacity	125Ah
Internal Resistance	≤4mΩ
Features	NeverDie® Reserve, High and Low Voltage Cutoff, High and Low Temperature Cutoff, Short Circuit Protection, Bluetooth® App Support
* May Not Be Connected in Series to Make 24 Volts.	
Charge	
Charging temperature range	32~113°F (0~45°C)
Charge voltage	14.4V Recommended (14.6V Max.)
Recommended float charge voltage (for standby use)	13.4
Recommended charge current	≤50A
Allowed max charge current	100A with starting temp of 77°F (25°C)
Discharge	
Discharging temperature range	-4~131°F (-20~55°C)
Output Voltage Range	10.0~14.6V
Recommended discharge current	≤80A
Max continuous discharge current	100A with starting temp of 77°F (25°C)
Surge discharge current	<400A for 30s max with starting temp of 77°F (25°C)
Pulse discharge current	<1000A for 1s max with starting temp of 77°F (25°C)
Reserve cut-off voltage	12.0V±0.05V
Discharge cut-off voltage	11.2±0.1V
Mechanical Characteristics	
Dimensions	
Length	12.5in (318mm)
Width	6.5in (165mm)
Height	8.46in (215mm)
Weight	Approx. 33.4lbs (15.1Kg)
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

INTERNAL NEVERDIE® COMPACT SERIES FEATURES

miniBMS® Cell/Module Sensors and Microprocessors with Automatic Cell Balancing
 NeverDie® Power Reserve (Spare Fuel) for Hotel Loads and Worry-Free Power for Engine Cranking
 Over-Charge, Over-Discharge and Short-Circuit Protection (LVC, HVC, SCC)
 Pushbutton Storage Operation

Available Optional Bluetooth®: Monitor Battery Voltage, State-of-Charge, Temperature, Current & Status Code remotely from your mobile device. Available for download on [Google Play](#) & [Apple App Store](#).



ENERGY

625 CRANKING AMPS
 PULSE AMPS: 1000 (1 SEC)
 1600 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 ENERGY SERIES