

LITHIONICS BATTERY®

LITHIUM ION IRON PHOSPHATE BATTERY SYSTEMS



MODEL: 12V130A-G31-LRBM8
PART NUMBER: 74-505

INTERNAL BMS
VERSION

NEVERDIE®

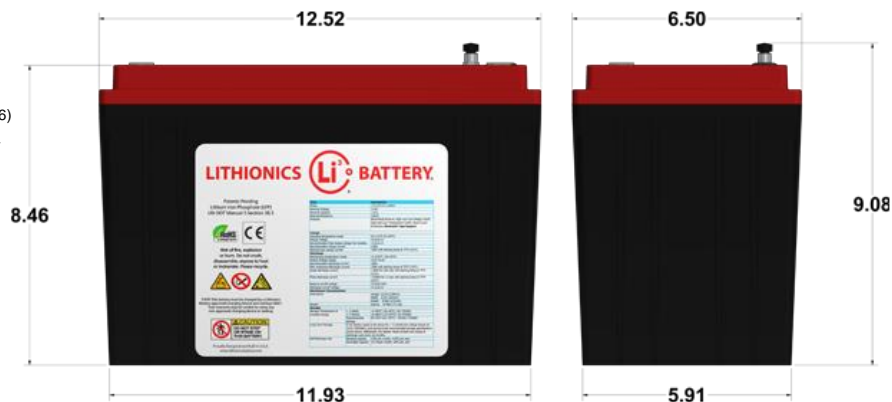


Use a 1000 watt inverter charger max. on a single battery.
Use a 2000 watt inverter charger max. on a twin-battery set up.
Do not use a 3000 watt inverter under any circumstances.

Item	Description	
Model	12V130A-G31-LRBM8	
Nominal Voltage	12.8V	
Nominal Capacity	130Ah	
Internal Resistance	≤4mΩ	
Features	NeverDie® Reserve, High and Low Voltage Cutoff, High and Low Temperature Cutoff, Short Circuit Protection, Bluetooth® App Support	
NOTE: Battery may not be connected in series to make 24 volts or higher.		
Charge		
Charging temperature range	32~113°F (0~45°C)	
Charge voltage	14.4±0.1V	
Recommended float charge voltage (for standby use)	13.5±0.1V	
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	10.4±0.1V	
Mechanical Characteristics		
Dimensions	Length 12.5in (318mm) Width 6.5in (165mm) Height 8.46in (215mm)	
Mounting Orientation	Upright position only (terminals up)	
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, Optional Remote Switch Harness Available (Part Number 75-224-196)
- 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: 1,000 (1 SEC)

1,664 WATT-HOURS

WARNING

- LITHIUM BATTERIES ARE NOT DESIGNED FOR CHARGING IN SUB-FREEZING TEMPERATURES. CONTACT LITHIONICS BATTERY® FOR DETAILS ON OUR COLD WEATHER PACKAGE.
- INSTALLATION: IT IS REQUIRED THAT THE BATTERY BE INSTALLED 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