

# LITHIONICS BATTERY®

LITHIUM ION IRON PHOSPHATE BATTERY SYSTEMS



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

INTERNAL BMS  
VERSION

House Battery (RV, Marine) Suitable for Occasional Engine Cranking. Not for Under the Hood or for use as a Primary Engine Cranking Battery.

## 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.  
Consult Lithionics for conditions required for a 3000w inverter.

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, <b>Bluetooth® App Support</b>

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