

# BATTERY SPECIFICATIONS

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Technology	Lithium Iron Phosphate
Nominal Voltage	12.8 V
Rated Capacity 77°F (25 ±5 °C)	100 Ah @ 20A (5hr run time); 92 Ah @ 50A (1hr 54 min run time; 92 Ah @ 100A (55 min run time)
Capacity Correction for Temperature Variations	-4 °F (-20°C) 60% 131°F (55°C) 95%
Maximum Discharge Current	100A (continuous) 120A (30 minutes) 150A (5 seconds)
Specific Energy Density	80 Wh/kg
Volumetric Energy Density	114.35 Wh/L
Internal Resistance	≤ 5 mΩ
Terminals	M8 insert Torque: 11-14.7 Nm (97.3 - 130 lbs)
Cycle Life - 77°F (25°C)	≤1500 @ 100% Depth of Discharge; ≥3000 @ 80%; ≥4500 @ 30%
Charge Voltage	14.6V
Maximum Charge Current	100A
Certifications	UN 38.3; CE; ETL
Charge Cut-off Voltage	14.6V
Discharge Cut-off Voltage	8.4V
Operating Temperature	Charge: 32°F (0°C) to 131°F (55°C) Discharge: -4°F (-20°C) to 131°F (55°C)
Storage Temperature <sup>1</sup>	1 Week: -4°F (-20°C) to 122°F (50°C) 1 month: -4°F (-20°C) to 113°F (45°C) 6 months <sup>1</sup> : -4°F (-20°C) to 104°F (40°C)
Humidity	Operating: 5% to 90 % RH Storage: 45% to 85% RH
BMS Leakage Current	3mA

<sup>1</sup>Max storage time before recharge is 6 months.



## GP-LiFePO4-250 LITHIUM BATTERY Quick Start Guide



Conforms to  
UL STD 2054



## WARNINGS



Only wire 4 batteries maximum in parallel

Do not wire in series

Do not get wet

Only suitable for 12-volt applications

Length	20.5 in / 520 mm
Width	9.5 in / 240 mm
Height	8.8 in / 223 mm
Weight	80 lbs / 36 kg
Carrying	Nylon Straps

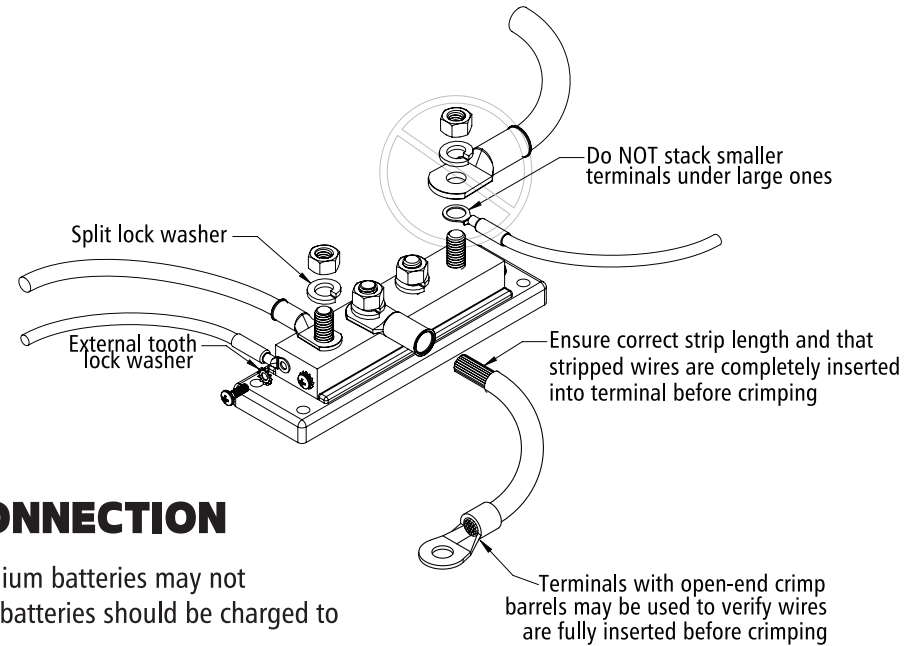
Find tech tips, manuals and support at [gpelectric.com](http://gpelectric.com)

## WIRING GUIDE

The illustrations below show how to properly wire lithium batteries. Batteries should be installed upright for mobile applications.

### BATTERY BANK TERMINAL CONNECTIONS

All battery interconnects, busbar and device connections to resist vibration by using nylon insert lock nuts, thread locking fluid, or lock washers (split lock or external tooth).



### 250AH LITHIUM BATTERY BANK PARALLEL CONNECTION

Note: Up to a maximum 4x 250Ah lithium batteries may be connected in parallel. Lithium batteries may not be connected in series. New batteries should never be connected to old batteries. All batteries should be charged to a minimum of 13V before connecting them together.

