

Lithium Iron Phosphate Battery (LiFePO4) 120Ah

The Lithium Iron Phosphate (LiFePO4) battery designed by Galenfeha is the ultimate battery for your power needs. This is a light weight replacement for your lead-acid battery, and will require no change to your existing system. However it will eliminate the solar regulator and can decrease the size of your solar panels. This is the power technology that is dependable for your individual requirements.

LiFePO4 is not your traditional lead-acid battery. It contains no acid, no poisonous lead and does not create gasses during charge. LiFePO4 batteries have much lower self-discharge, do not sulfate, and are environmentally friendly.

The Battery Management System (BMS) on Galenfeha LiFePO4 batteries monitors the key operational parameters during charging and discharging such as voltages, currents and internal temperatures.

The light weight, safety, excellent thermal stability, long life, good electrochemical properties and a very high specific energy density make Galenfeha's LiFePO4 batteries the best choice to replace lead-acid batteries.

Optional Internal GPS Asset Tracking:

Galenfeha proudly offers its clients a proprietary, user interface driven, asset tracking system that is internally integrated within the company's line of LiFePO4 battery systems. The system initially presents as a cloud driven database to collect and collate individual client information and uses unique ESN numeric identifiers to reference each client's specific asset inventory. The system then utilizes a combination of CDMA technologies coupled with satellite geo-location referencing to accurately monitor and track the battery system in the event of theft.

For more information, contact sales@tserecon.com



**Part #: TSE-TGLFH120
TSE-TGLFH120/GPS**

Features

- Light Weight (up to 70% weight reduction over lead acid)
- Uniform Voltage During Discharge
- >3000 Full Depth of Discharge Cycles
- No Venting and Wider Temperature Range
- Capable of Nearly Full Nameplate Capacity Delivery vs. 50% Typically from Sealed Lead Acid
- Long duration charge retention (no trickle charging required)
- 10 Year Warranty
- Optional GPS Asset Tracking



Available on GSA Schedule **GS-35F-0039T**



Tactical Support Equipment
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Specifications subject to change without notice, the information in this document does not form part of any contract or quote.

Specifications (TSE-TGLFH120 or TSE-TGLFH120/GPS)	
Chemistry	Lithium Iron Phosphate (LiFePO4)
Nominal Voltage	12VDC (13.2 VDC average)
Nominal Capacity	120Ah at 0.2C discharge rate
Max Continuous Discharge Current	28A
Over Current Protection	70 ± 10A, 20 ± 5ms
Discharge Cut-off Voltage	Approx. 10.5VDC
Charge Voltage	14.4 ± 0.2VDC
Charge Mode	CC/CV use a constant current, constant voltage (CC/CV) charging regime
Max Charge Current	28A
Internal Resistance	<20m ohm
Operating Temperature	Charge: 0°C to 45°C (32°F to 113°F), Discharge: -20°C to 60°C (-4°F to 140°F)
Weight	Approx. 37 ± 0.1lbs. (16.8 ± 0.2kg)
Length	11.75" (298.45 ± 1mm)
Width	7.50" (190.5 ± 1mm)
Height	10.25" (260.35 ± 1mm)
Connectors	Thread Type Screw Terminals
Ambient Temperature Control	ON at -20°C / -4°F and OFF -10°C / 14°F
Protection	Over charge protection, Over discharge protection, Over current protection, Temperature protection, Cell balancing function
Transportation	Class 9 Hazardous
GPS Tracking	(Optional, Part#: TSE-TGLFH120/GPS) Internal, using CDMA service. Geo-fencing with browser interface and mobile compatible. The hardware cost is built into the initial purchase price of the GPS battery unit and data service charges are per unit annually.
Warranty	10 Year

Optional Accessories	
LiFePO4 Battery Charger	Part #: TSE-TGLFH-BAT-CHGR

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