# LiFePO4 Lithium Battery

Bluetooth-enabled app revolutionizes how you monitor and optimize your LFP battery's life and performance. With real-time insights at your fingertips, you can track crucial metrics like state of charge, voltage, temperature, and more, ensuring your battery operates at peak efficiency.

### **Advantages of LFP Over SLA**

OWERED

- LFP batteries are equipped with an integrated heater, ensuring optimal performance even in the chilliest conditions
- . Lower cost per cycle, greater than ten times the cycle life of sealed leadacid batteries
- Ultra-light weight; Significantly lighter than sealed lead-acid batteries
- Drop in replacement for sealed lead-acid batteries
- · Faster charging as a result of higher charge current
- More usable capacity sealed lead-acid battery capacity decreases as discharge current increases
- Includes Battery Management System (BMS) protection. Contains a circuit that fully protects itself with a Low Voltage Disconnect and a High Current Disconnect on discharge
- · Balancing circuit on charge

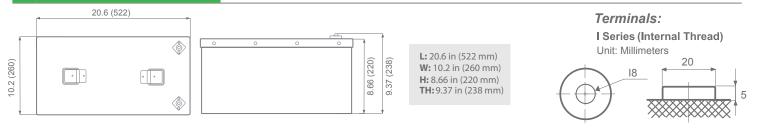
### **Specifications:**

Electrical	
Nominal Voltage	25.6V
Nominal Capacity @ 77°F (25°C)	280 Ah
Maximum Series Voltage	51.2V (2 Max.)
Maximum Parallel Capacity	1120 Ah (4 Max.)
Internal Resistance	≤0.8 mΩ @ 100% SOC
Self Discharge	< 3% per month
Efficiency	99%
Mechanical	
Weight (approximate)	108 lbs (49.0kg)
Case Material	ABS
Waterproof Rating	IP65
Chemistry	LiFePO <sup>4</sup>
Discharge	
Maximum Discharge Current	100A
Recommended Low Voltage Disconnect	22.4V
Low Voltage Cutoff Protection (BMS)	20.0V
Reconnect Voltage	22.4V

### **Recommended Charge Current** 70A Maximum Charge Current 100A Charge Voltage Range (Absorption) 28.4 - 29.2 V BMS Charge Voltage Cutoff 29.6V **Reconnect Voltage** 27.6V Cell Voltage/Current Balance **BMS Functions** Temperature **Operating Temperature**

operating reinperature	
Discharge	-4°F~131°F (-20°C~55°C)
Charge	32°F~122°F (0°C~50°C)
Storage	-4°F ~140°F (-20°C ~ 60°C)
Charge	
BMS High Temperature Protection	131°F (55°C)
Protection Release Temperature	113°F (45°C)
Discharge	
BMS High Temperature Protection	140°F (60°C)
Protection Release Temperature	122°F (50°C)

### **Physical Dimensions: in (mm)**



#### State of Discharge Curve (0.5C, 1C@25°C) 29.6 28.8 28.0 27.2 Voltage / V 26.4 25.6 Discharge - (50A) 24.8 24.0 Discharge - (100A) 23.2 22.4 21.6 20.8 20.0 35 70 105 140 175 210 245 280 315 250 Capacity / Ah

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All specifications subject to change without notice.

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Maintenance-Free Experience the ultimate in battery management with the UPG BT app,



Due to continuous improvements to our products, product may vary slightly from depiction

## Charge

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