

**Advantages of LFP Over SLA**

- 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 Lead-Acid 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)	103 Ah
Maximum Series Voltage	No Support
Maximum Parallel Capacity	No Support
Internal Resistance	≤6 mΩ @ 100% SOC
Self Discharge	<3 % per month
Efficiency	99%

**Mechanical**

Weight (approximate)	57.3lbs (26 Kg [+/-1.1lbs-.5Kg])
Case Material	ABS
Waterproof Rating	IP65
Chemistry	LiFePO

**Discharge**

Maximum Discharge Current	100A
Recommended Low Voltage Disconnect	22.4V
Low Voltage Cutoff Protection (BMS)	20.0V
Reconnect Voltage	22.4V



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

**Charge**

Recommended Charge Current	50 (0.5C)
Maximum Charge Current	100A
Charge Voltage Range (Absorption)	28.4 ~ 29.2V
BMS Charge Voltage Cutoff	29.6V
Reconnect Voltage	27.6V

**BMS Functions**

Cell Voltage/Current Balance Temperature, MOSFETS

**Operating Temperature**

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)

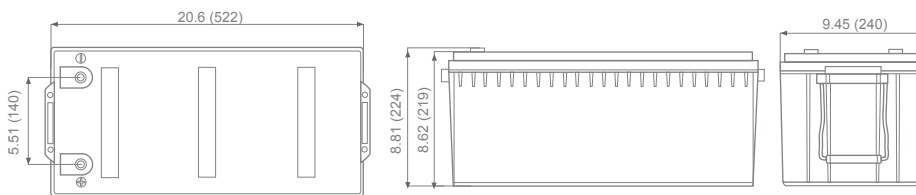
**Charge**

BMS High Temperature Protection	131°F (55°C)
Protection Release Temperature	113°F (45°C)

**Discharge**

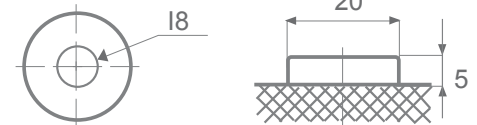
BMS High Temperature Protection	140°F (60°C)
Protection Release Temperature	122°F (50°C)

**Physical Dimensions: in (mm)**



L: 20.6 in (522 mm) H: 8.62 in(219 mm) Tolerances are:  
W: 9.45 in (240 mm) TH: 8.81 in(224 mm) +/- .08 in (+/- 2mm)

**Terminals:**  
I Series (Internal Thread)  
Unit: Millimeters



State of Discharge Curve (0.5C, 1C@25°C)

