

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.

LFP36500

Maintenance-Free

Experience the ultimate in battery management with the **UPG BT** app, available now on the App Store.



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

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	38.4V
Nominal Capacity @ 77 F (25 C)	50 Ah
Maximum Series Voltage	No Series Support
Maximum Parallel Capacity	200 Ah (4 Max.)
Internal Resistance	≤15 mΩ @ 100% SOC
Self Discharge	< 3% per month
Efficiency	99%

Mechanical

Weight (approximate)	37.5 lbs (17 kg)
Case Material	ABS
Waterproof Rating	IP65
Chemistry	LiFePO ⁴

Discharge

Maximum Discharge Current	50A
Recommended Low Voltage Disconnect	33.6 V
Low Voltage Cutoff Protection (BMS)	30.0 V
Reconnect Voltage	33.6V

Charge

Recommended Charge Current	25 (0.5C)
Maximum Charge Current	50A
Charge Voltage Range (Absorption)	41.4 - 43.2 V
BMS Charge Voltage Cutoff	44.4 V
Reconnect Voltage	41.4 V

BMS Functions

Cell Voltage/Current Balance
Temperature

Operating Temperature

Discharge	-4°F ~ 131°F (-20°C ~ 55°C)
Charge	32°F ~ 122°F (0°C ~ 50°C)
Storage	14°F ~ 113°F (-10°C ~ 45°C)

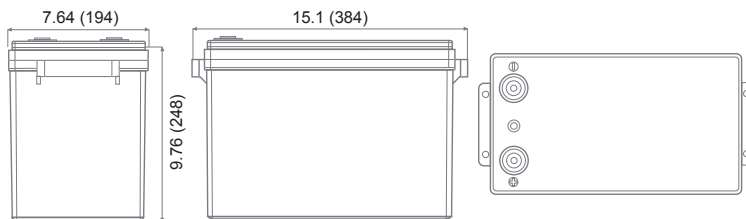
Charge

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

Discharge

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

Physical Dimensions: in (mm)

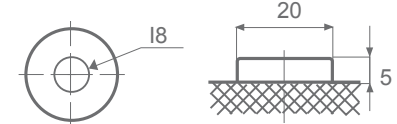


L: 15.1 in (384) mm
W: 7.64 in (194) mm
H: 9.76 in(248) mm

Terminals:

I Series (Internal Thread)

Unit: Millimeters



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

