

## LITHIUM IRON PHOSPHATE BATTERY

### ELECTRICAL PERFORMANCE

Nominal Voltage	12.8 V
Nominal Capacity	125Ah
Capacity @ 25A	300 min
Energy	1600 Wh
Resistance	≤8 mΩ @ 50% SOC
Self Discharge	<3% / Month
Cells	Cylindrical

### CHARGE PERFORMANCE

Recommended Charge Current	25 A
Maximum Charge Current	125 A
Recommended Charge Voltage	14.6 V
BMS Charge Cut-Off Voltage	<15.6 V (3.9V/Cell)
Reconnect Voltage	>14.0 V (3.5V/Cell)
Balancing Voltage	<14.4 V (3.6V/Cell)
Maximum Batteries in Series	4

### DISCHARGE PERFORMANCE

Maximum Continuous Discharge Current	150 A
Peak Discharge Current	300 A (3s)
BMS Discharge Cut-Off Current	450 A ±20 A (31 ms)
Recommended Low Voltage Disconnect	11 V (2.75V/Cell)
BMS Discharge Cut-Off Voltage	>8.0 V (3s) (2.0V/Cell)
Reconnect Voltage	>10.8 V (2.7V/Cell)
Short Circuit Protection	250 ~ 500 μs



### MECHANICAL PERFORMANCE

Dimension (L x W x H)	329 x 172 x 223 mm 13.0 x 6.8 x 8.8"
Approx. Weight	33.7 lbs (15.3 kg)
Terminal Type	T11
Terminal Torque	80 ~ 100 in-lbs (9 ~ 11 N-m)
Case Material	ABS
Enclosure Protection	IP65

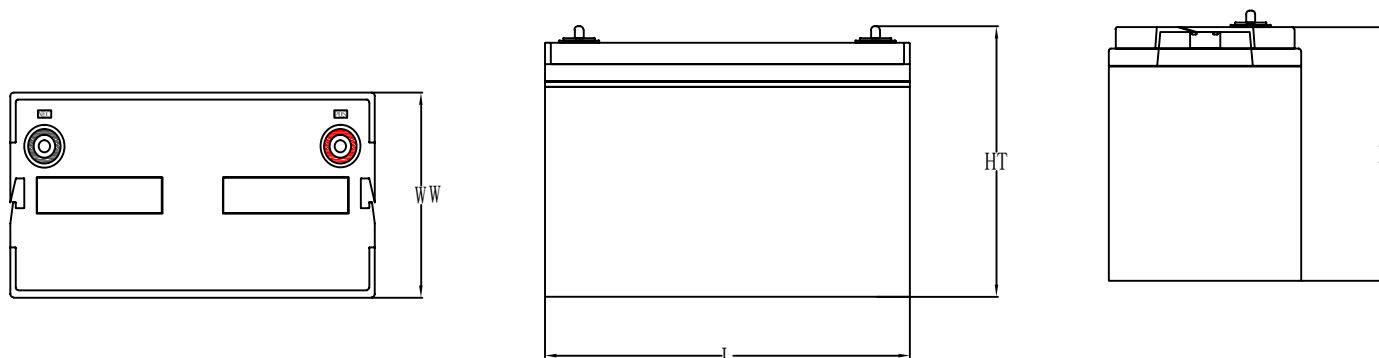
### TEMPERATURE PERFORMANCE

Discharge Temperature	-4 ~ 149 °F (-20 ~ 65 °C)
Charge Temperature	32 ~ 113 °F (0 ~ 45 °C)
Storage Temperature	23 ~ 95 °F (-5 ~ 35 °C)
BMS High Temperature Cut-Off	167 °F (75 °C)
Reconnect Temperature	149 °F (65 °C)

### COMPLIANCE

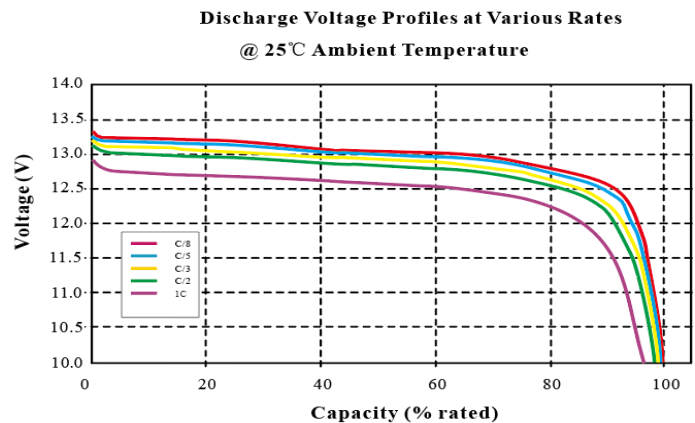
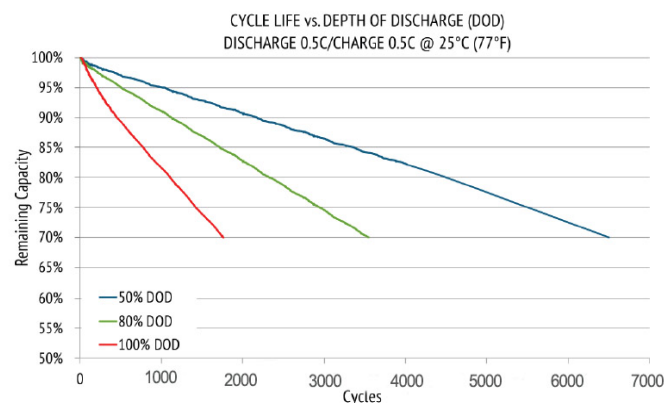
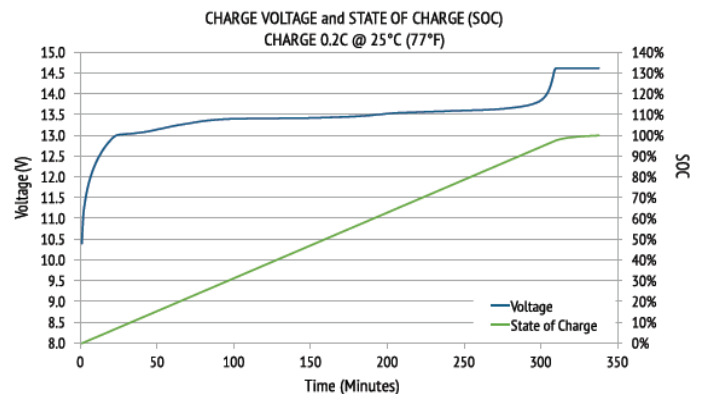
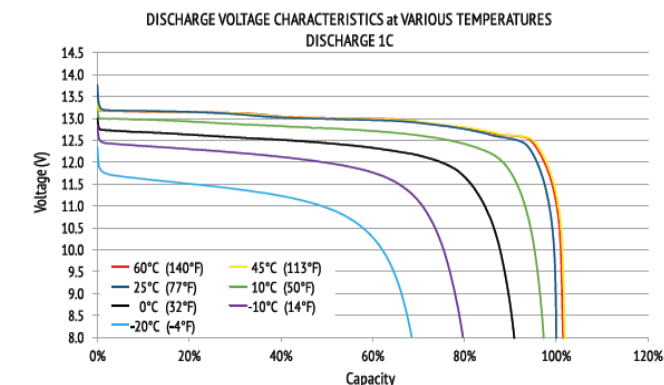
Certifications	CE (battery) UN38.3 (battery) UL1642 & IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9

### OUTLINE DIMENSION



L mm(")	W mm(")	H mm(")	HT mm(")
329 (13.0 )	172 (6.8)	213 (8.4)	223 (8.8)

## PERFORMANCE CHARACTERISTICS



## FEATURES & BENEFITS



### High cycle life

>2000 cycles @80% DoD for effectively lower total cost of ownership.



### Longer service life

Low maintenance batteries with stable chemistry.



### Built in circuit protection

Battery Management System (BMS) is incorporated against abuse.



### Better storage

up to 6 months thanks to its extremely low self discharge (LSD) rate and no risk of sulphation.



### Quickly recharge

Save time and increase productivity with less down time thanks to superior charge/discharge efficiency.



### Extreme heat tolerance

Suitable for use in a wider range of applications where ambient temperature is unusually high: up to +60°C.



### Lightweight

Lithium batteries provide more Wh/Kg while also being up to 1/3 the weight of its SLA equivalent.

## APPLICATIONS

Lithium Iron Phosphate can be used in most applications that use Lead Acid, GEL or AGM type batteries. Suitable applications include:

- Caravan
- Marine
- Golf Car
- Buggies
- Solar Storage
- Remote Monitoring
- Switching applications and more

## CAUTIONS

- Do NOT short circuit, reverse polarity, crush or disassemble.
- Do NOT heat or incinerate.
- Do NOT immerse in any liquid.
- Store at 30~50% SOC. Recharging every 3 months is recommended. The storage area should be clean, cool, dry and ventilated.

