

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL PERFORMANCE

Nominal Voltage	12.8 V
Nominal Capacity	300 Ah
Capacity @ 60A	300 min
Energy	3840 Wh
Resistance	≤30 mΩ @ 50% SOC
Self Discharge	<3% / Month
Cells	Cylindrical

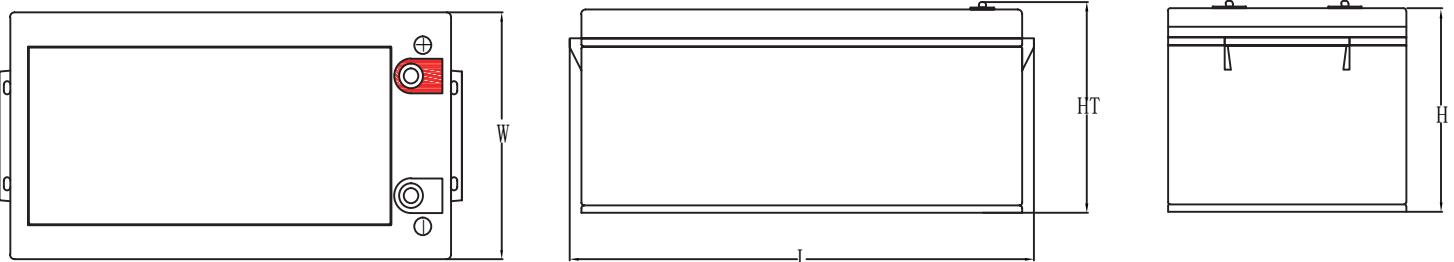
CHARGE PERFORMANCE

Recommended Charge Current	>60 A
Maximum Charge Current	100 A
Recommended Charge Voltage	14.6 V
PCM Charge Cut-Off Voltage	<15.6 V (3.9V/Cell)
Reconnect Voltage	>14.4 V (3.6V/Cell)
Balancing Voltage	<14.4 V (3.6V/Cell)
Maximum Batteries in Series	1 (Single-Use)

DISCHARGE PERFORMANCE

Maximum Continuous Discharge Current	100 A
Peak Discharge Current	200 A (5~10s)
PCM Discharge Cut-Off Current	300A ±50 A (31 ms)
Recommended Low Voltage Disconnect	11 V
PCM Discharge Cut-Off Voltage	>8.0 V (2~ 3 ms) (2.0V/Cell)
Reconnect Voltage	>9.2 V (2.3V/Cell)
Short Circuit Protection	200 ~ 800 μs

OUTLINE DIMENSION



L mm(")	W mm(")	H mm(")	HT mm(")
520 (20.5)	267 (10.5)	221 (8.7)	228 (9.0)



MECHANICAL PERFORMANCE

Dimension (L x W x H)	520 x 268x 228 mm 20.5 x 10.6 x 9"
Approx. Weight	77.8 lbs (35.4 kg)
Terminal Type	M8
Terminal Torque	80 ~ 100 in-lbs (9 ~ 11 N-m)
Case Material	ABS
Enclosure Protection	IP65

TEMPERATURE PERFORMANCE

Discharge Temperature	-4 ~ 167 °F (-20 ~ 75 °C)
Charge Temperature	-4 ~ 149 °F (-20 ~ 65 °C)
Storage Temperature	23 ~ 95 °F (-5 ~ 35 °C)
PCM High Temperature Cut-Off	149 °F (65 °C)
Reconnect Temperature	140 °F (60 °C)

HEATING ELEMENT PERFORMANCE

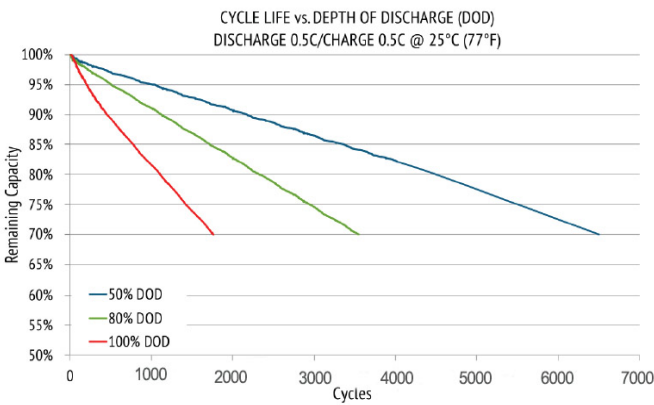
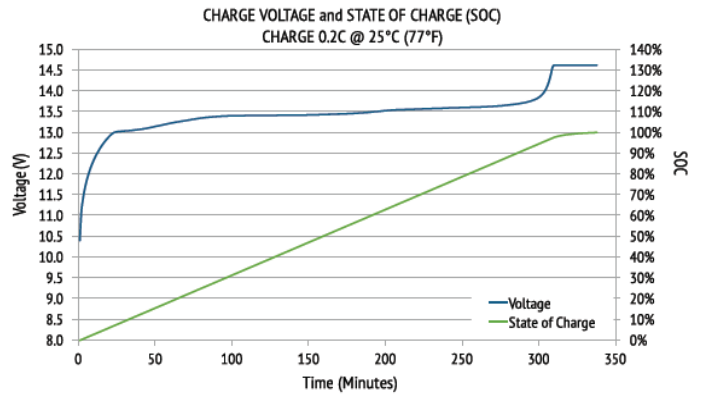
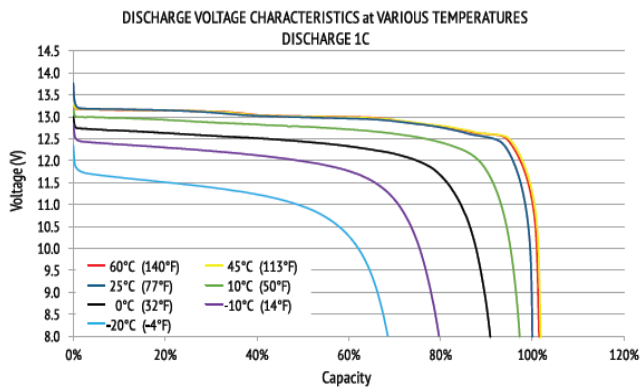
Heating Temperature Range	-4 to 50 °F (-20 to 10 °C)
Heating Time	Approximately 1 hr @ 10 A
PCM Heating Element Cut-Off	185 °F (85 °C)

COMPLIANCE

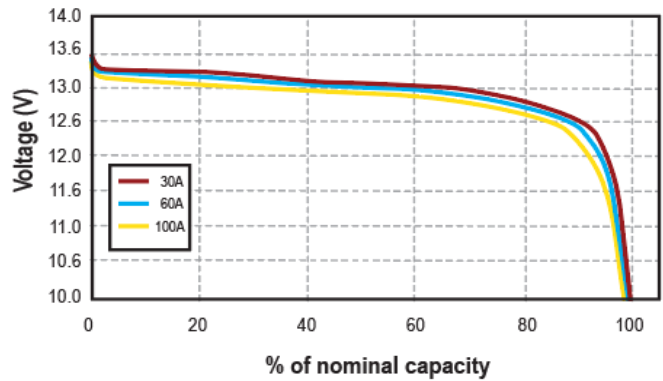
Certifications	CE (battery) UN38.3 (battery) UL1642 & IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9

Performance may vary depending on application. All specifications are subject to change without prior notice to the user. This data is for evaluation purposes only. No guarantee is intended or implied by this data. For clarification and updated information, please contact us.

PERFORMANCE CHARACTERISTICS



Discharge characteristic at different rate at room temperature



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
Protection Circuit Module (PCM) 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, 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.

Performance may vary depending on application. All specifications are subject to change without prior notice to the user. This data is for evaluation purposes only. No guarantee is intended or implied by this data. For clarification and updated information, please contact us.