

51.2V200Ah 10240WH

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL PERFORMANCE

Nominal Voltage	51.2 V
Nominal Capacity	200 Ah
Capacity @ 40A	300 min
Energy	10240 Wh
Resistance	≤20 mΩ @ 50% SOC
Self Discharge	<3% / Month
Cells	LFP Cell 3.2V

CHARGE PERFORMANCE

Recommended Charge Current	40 A
Maximum Continuous Discharge Current	100 A
Charge Cut-Off Voltage	58.4 V
Reconnect Voltage	>56 V
Balancing Voltage	<54.4 V
Protocol	RS485/CAN

DISCHARGE PERFORMANCE

Continuous Discharge Current	50 A
Maximum Continuous Discharge Current	100 A
Peak Discharge Cut-Off Current	300 A (5 ~15 ms)
Discharge Cut-Off Voltage	40 V
Reconnect Voltage	>44.8V
Short Circuit Protection	200 ~ 800 μs



MECHANICAL PERFORMANCE

Dimension (L x W x H)	442 x145 x 930 mm 17.52 x 5.71 x36.61"
Approx. Weight	About 88±2 kg
Terminal Type	M8
Terminal Torque	80 ~ 100 in-lbs (9 ~ 11 N-m)
Case Material	Metal
Enclosure Protection	IP20

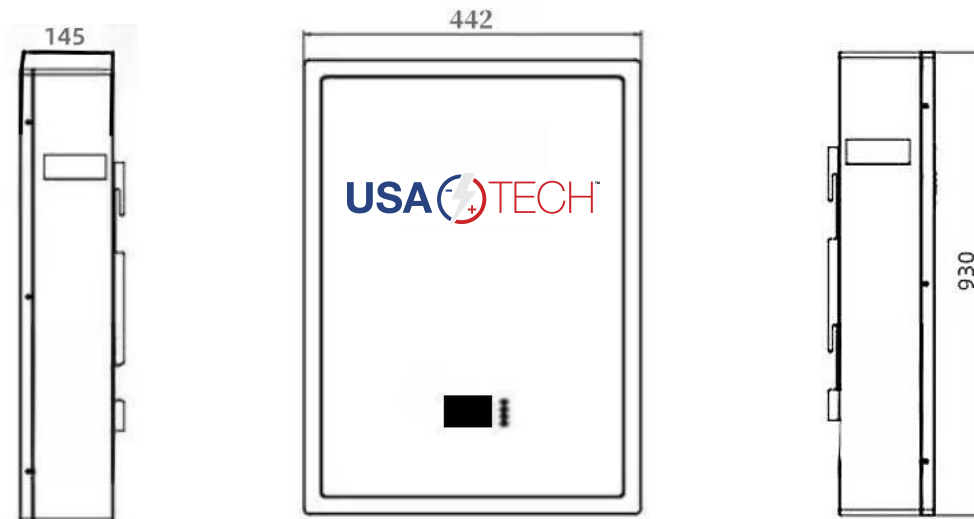
TEMPERATURE PERFORMANCE

Discharge Temperature	-4 ~ 140 °F (-20 ~ 60 °C)
Charge Temperature	32 ~ 113 °F (0 ~ 45 °C)
Storage Temperature	23 ~ 95 °F (-5 ~ 35 °C)
High Temperature Cut-Off	149 °F (65 °C)
Reconnect Temperature	118 °F (48 °C)

COMPLIANCE

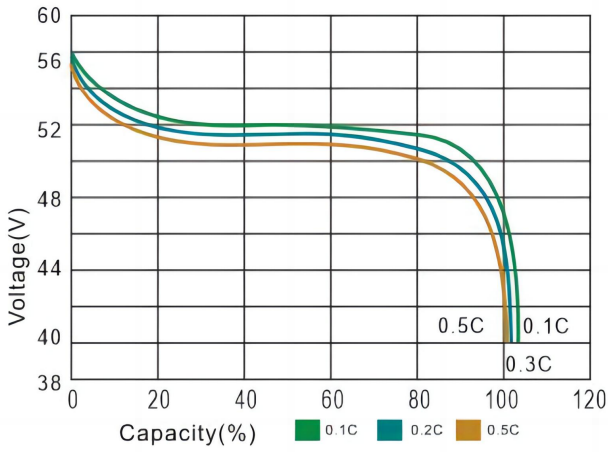
Certifications	CE UN38.3 UL1973 & IEC62619
Shipping Classification	UN 3480, CLASS 9

OUTLINE DIMENSION

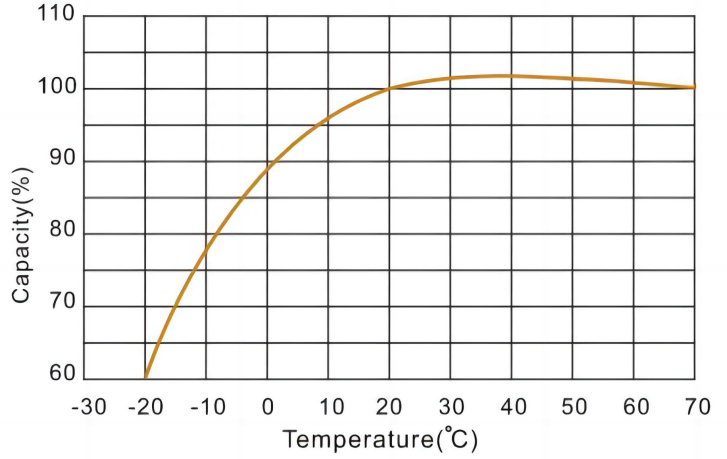


PERFORMANCE CHARACTERISTICS

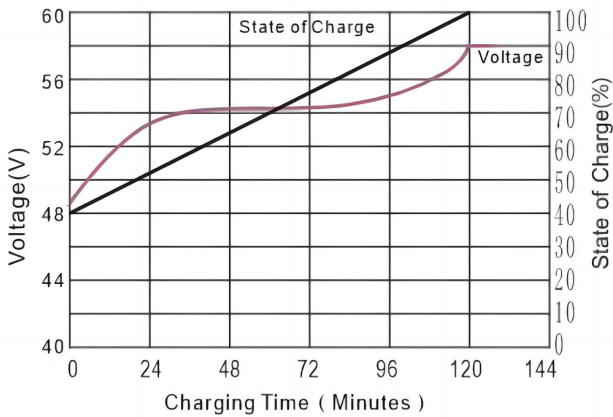
Discharge Performance at 25°C



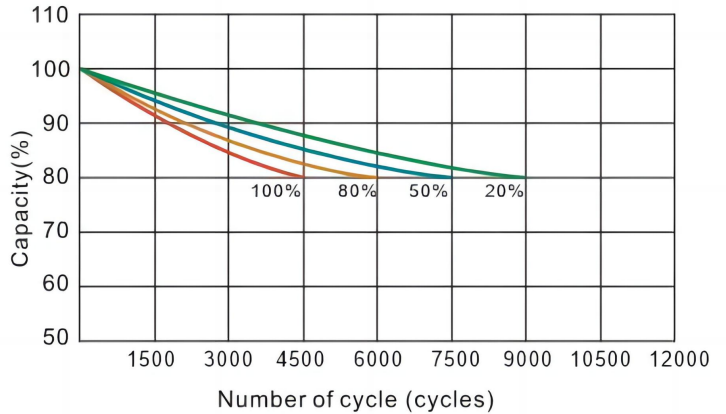
Temperature effects on capacity at 0.2C



State of Charge Curve (0.5C, 25°C)



Cycle life with DOD at 25°C, 0.2C



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FEATURES & BENEFITS



High cycle life

>6000 cycles @80% DoD for effectively lower total cost of ownership, Design Life ≥10 years.



Longer service life

Low maintenance batteries with stable chemistry. Easily monitor state of charge (SoC) of smart models.



Built in circuit protection (bms)

Battery Management Systems (BMS) are 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 50% capacity. Recharge every 3 months. 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.