

**SPF48V300-ST Standard Type Battery**

**LITHIUM IRON PHOSPHATE BATTERY**

<b>ELECTRICAL PERFORMANCE</b>	
Nominal Voltage	51.2 V
Nominal Capacity	300 Ah
Capacity @ 25A	720 min
Energy	15.36 kWh
Resistance	50 mΩ @ 50% SOC
Self Discharge	<3% / Month
Cells	Cylindrical - LiFePO4

<b>CHARGE PERFORMANCE</b>	
Recommended Charge Current	15 A - 100 A
Maximum Charge Current	100 A
Recommended Charge Voltage	56.0 V - 58.4 V
BMS Charge Cut-Off Voltage	60.8 V (3.8 ±0.025 vpc)
Reconnect Voltage	57.6 V (3.6 ±0.05 vpc)
Balancing Voltage	57.6 V (3.6 ±0.025 vpc)
Maximum Batteries in Series	1 (Single Use)

<b>DISCHARGE PERFORMANCE</b>	
Maximum Continuous Discharge Current	200 A
Peak Discharge Current	250 A (4 s ±1 s)
BMS Discharge Cut-Off Current	450 A ±80 A (100 ±20 ms)
Recommended Low Voltage Disconnect	44 V
BMS Discharge Cut-Off Voltage	32 V (2.0 ±0.08 vpc) (100 ±20 ms)
Reconnect Voltage	40 V (2.5 ±0.1 vpc)
Short Circuit Protection	200 ~ 600 μs

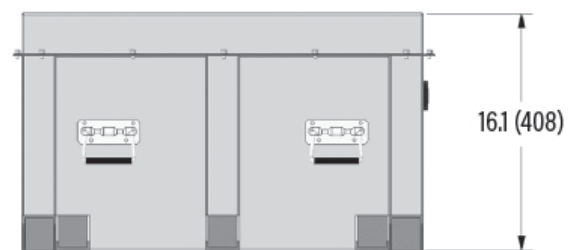
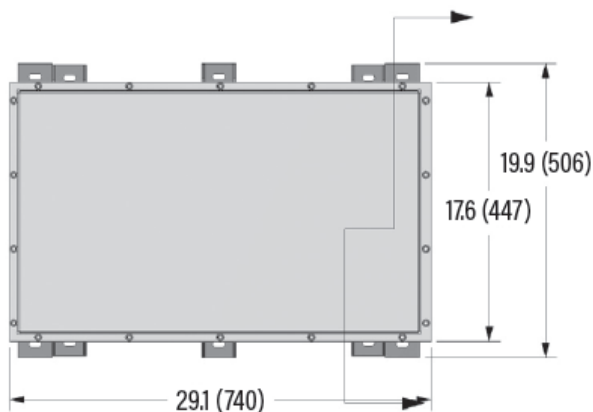


<b>MECHANICAL PERFORMANCE</b>	
Dimension (L x W x H)	740 x 506 x 408 mm 29.1 x 19.9 x 16.1"
Approx. Weight	348 lbs (158 kg)
Terminal Type	M10
Case Material	Steel Case
Enclosure Protection	IP56

<b>TEMPERATURE PERFORMANCE</b>	
Discharge Temperature	-4 ~ 140 °F (-20 ~ 60 °C)
Charge Temperature	32 ~ 113 °F (0 ~ 45 °C)
Storage Temperature	23 ~ 95 °F (-5 ~ 35 °C)
BMS High Temperature Cut-Off	176 °F (80 °C)
Reconnect Temperature	140 °F (60 °C)

<b>COMPLIANCE</b>	
Certifications	CE (battery) UN38.3 (battery) UL1642 & IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9

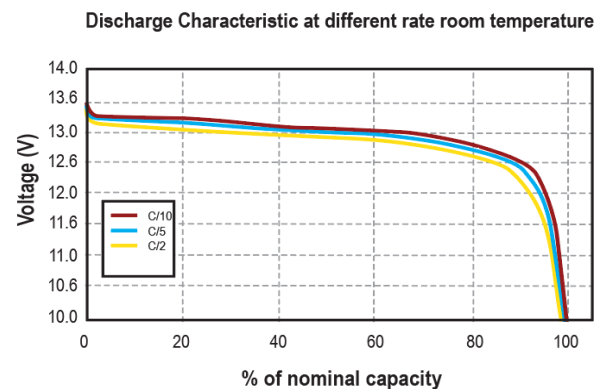
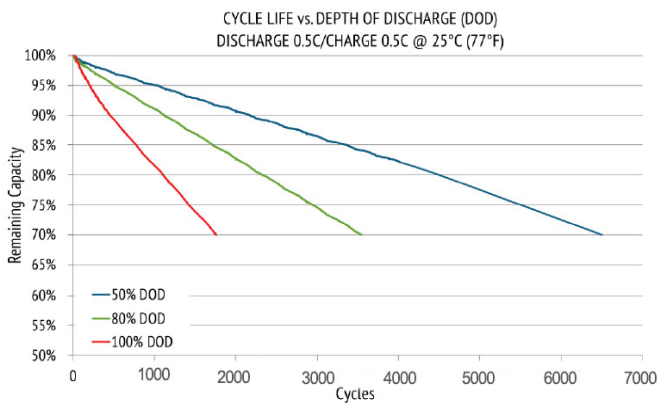
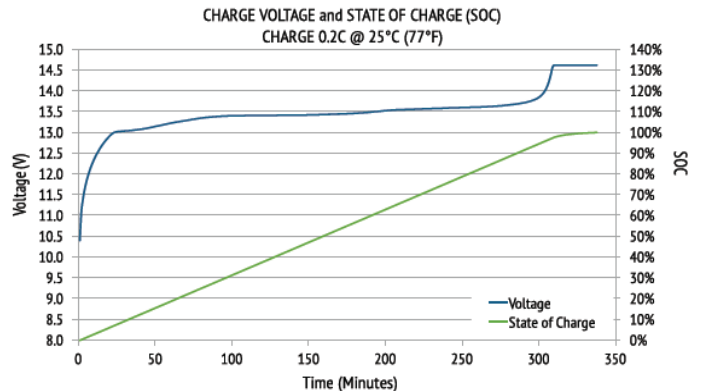
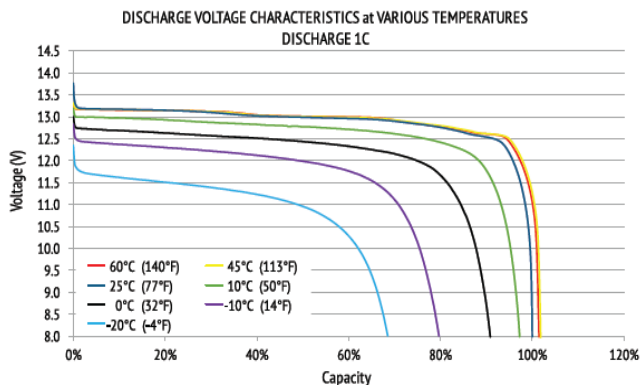
**OUTLINE DIMENSION**



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.

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**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 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 30~50% SOC. Recharging every 3 months is recommended. The storage area should be clean, cool, dry and ventilated.

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