

SPF12V100-LB Low Temperature + Bluetooth Battery

Group: 31

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL PERFORMANCE		
Nominal Voltage 12.8 V		
Nominal Capacity	100 Ah	
Capacity @ 20A	300 min	
Energy	1280 Wh	
Resistance	≤50 mΩ @ 50% SOC	
Self Discharge	<3% / Month	
Cells	FR26650EC	

CHARGE PERFORMANCE		
Recommended Charge Current >20 A		
Maximum Charge Current	100 A	
Recommended Charge Voltage 14.6 V		
BMS 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)	
BMS Discharge Cut-Off Current	300 A ± 30 A (31 ms)	
Recommended Low Voltage Disconnect	11 V	
BMS Discharge Cut-Off Voltage	>8.0 V (2 ~ 3 ms) (2.0V/Cell)	
Reconnect Voltage	>10 V	
Short Circuit Protection	200 ~ 800 μs	

STATUS OWNER 15: VIEW 5.77 VIEW

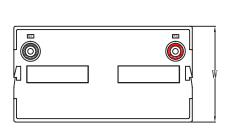
MECHANICAL PERFORMANCE			
Dimension (L x W x H)	329 x 172 x 223 mm 12.95 x 6.77 x 8.8"		
Approx. Weight	28.2 lbs (12.8 kg)		
Terminal Type	M8		
Terminal Torque	80 ~ 100 in-lbs (9 ~ 11 N-m)		
Case Material	ABS		
Enclosure Protection	IP65		

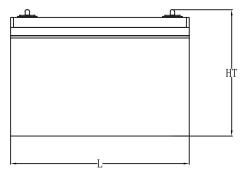
TEMPERATURE PERFORMANCE			
Discharge Temperature $-4 \sim 167 ^{\circ}\text{F} (-20 \sim 75 ^{\circ}\text{C})$			
Charge Temperature	-4 ~ 149 °F (-20 ~ 65 °C)		
Storage Temperature	23 ~ 95 °F (-5 ~ 35 °C)		
BMS High Temperature Cut-Off	149 °F (65 °C)		
Reconnect Temperature	122 °F (50 °C) (Charge) 131 °F (55 °C) (Discharge)		

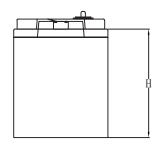
HEATING ELEMENT PERFORMANCE		
Heating Temperature Range -4 to 50 °F (-20 to 10 °C)		
Heating Time	Approximately 1 hr @ 10 A	
CM Heating Element Cut-Off 158 °F (70 °C)		

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 (12.95)	172 (6.77)	213 (8.39)	223 (8.8)

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.





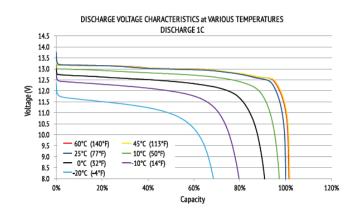


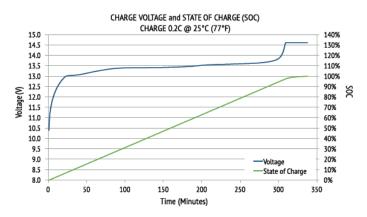
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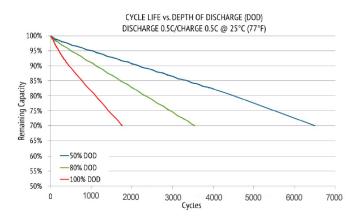
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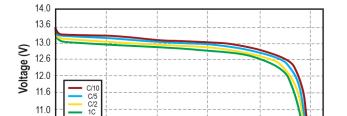
100

PERFORMANCE CHARACTERISTICS









Discharge characteristic at different rate at room temperature

FEATURES & BENEFITS

TARTOR MANO

High cycle life

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



Longer service life

Low maintenance batteries with stable chemistry. Easily monitor battery status via mobile APP.



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:

% of nominal capacity

Caravan

10.6

10.0

n

- 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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