SPF12V10-ST STANDARD TYPE BATTERY

ELECTRICAL PERFORMANCE	
Nominal Voltage	12.8 V
Nominal Capacity	10Ah
Capacity @ 2.0A	300 min
Energy	128 Wh
Resistance	≤50 mΩ @ 50% SOC
Self Discharge	<3% / Month
Cells	Cylindrical

CHARGE PERFORMANCE	
Recommended Charge Current	2.0A
Maximum Charge Current	10A
Recommended Charge Voltage	14.6V
BMS Charge Cut-Off Voltage	<15.6V (3.9V/Cell)
Reconnect Voltage	>14.4V (3.6V/Cell)
Balancing Voltage	<14.4V (3.6V/Cell)
Maximum Batteries in Series	4

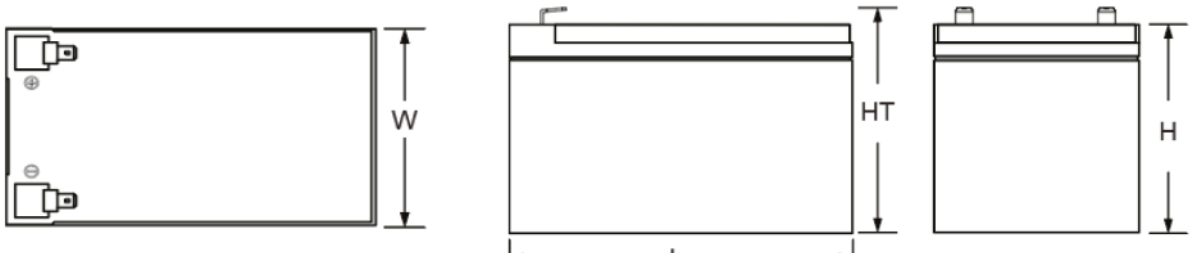
MECHANICAL PERFORMANCE	
Dimension (L x W x H)	151 x 98 x 105 mm 5.9 x 3.9 x 4.1”
Approx. Weight	2.9 lbs (1.3 kg)
Terminal Type	F2
Case Material	ABS
Enclosure Protection	IP65

DISCHARGE PERFORMANCE	
Maximum Continuous Discharge Current	15A
Peak Discharge Current	30A (3s)
BMS Discharge Cut-Off Current	45A ±5 A (31 ms)
Recommended Low Voltage Disconnect	11.0V (2.75V/Cell)
BMS Discharge Cut-Off Voltage	>10.0V (2s) (2.5V/Cell)
Reconnect Voltage (by charging)	>11.2V (2.8V/Cell)
Short Circuit Protection	250 ~ 500 μs

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)
BMS High Temperature Cut-Off	149 °F (65 °C)
Reconnect Temperature	131 °F (55 °C)

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

OUTLINE DIMENSION



L mm(")	W mm(")	H mm(")	HT mm(")
151 (5.9)	98 (3.9)	99 (3.9)	105 (4.1)

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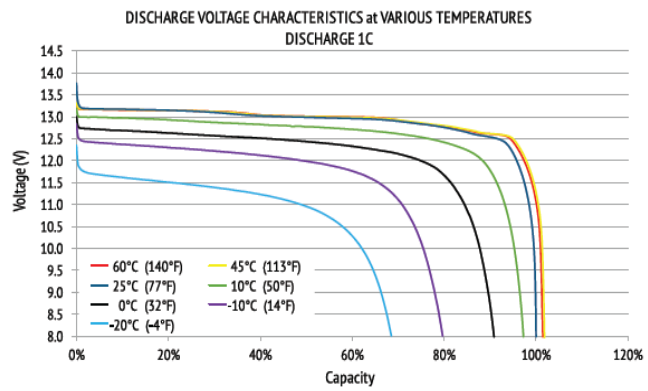
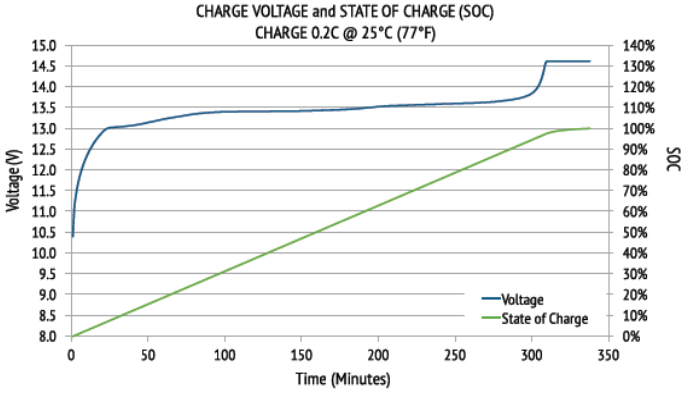
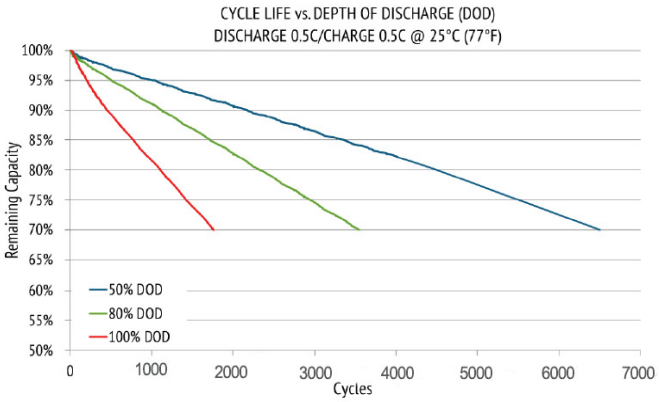
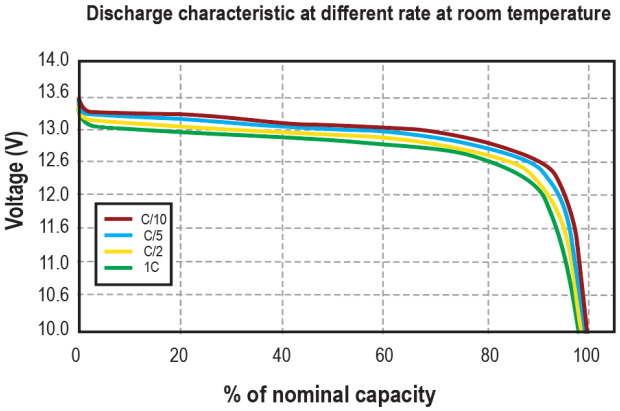
PERFORMANCE CHARACTERISTICS









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 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.

Light weight
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:
- Fishing sonar
- Electrical devices
- Toys
- Emergency light
- Digital camera
- 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