

SPF12V100-DLT Low Temperature Battery

DIN

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL PERFORMANCE

| | |
|------------------|------------------|
| Nominal Voltage | 12.8 V |
| Nominal Capacity | 100 Ah |
| Capacity @ 20A | 300 min |
| Energy | 1280 Wh |
| Resistance | ≤15 mΩ @ 50% SOC |
| Self Discharge | <3% / Month |
| Cells | IFR26650EC |

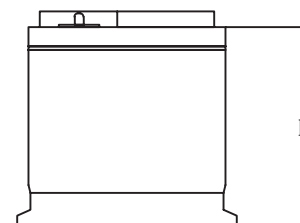
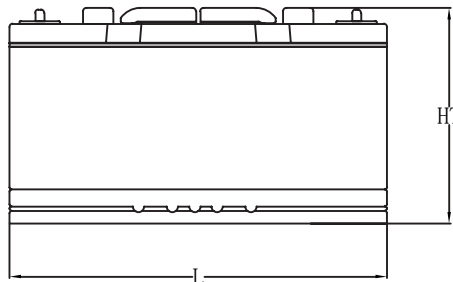
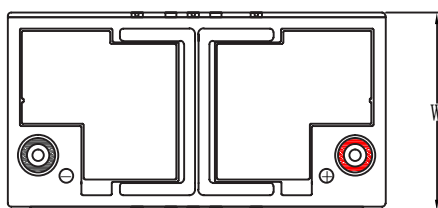
CHARGE PERFORMANCE

| | |
|-----------------------------|---------------------|
| 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 (3s) |
| BMS Discharge Cut-Off Current | 300 A ±10 A (31ms) |
| Recommended Low Voltage Disconnect | 11 V (2.75V/Cell) |
| BMS Discharge Cut-Off Voltage | >8.0 V (2s) (2.0V/Cell) |
| Reconnect Voltage | >10.0 V (2.5V/Cell) |
| Short Circuit Protection | 250 ~ 500 μs |

OUTLINE DIMENSION



| L mm(") | W mm(") | H mm(") | HT mm(") |
|------------|-----------|-----------|-----------|
| 335 (13.2) | 174 (6.9) | 181 (7.1) | 191 (7.5) |



MECHANICAL PERFORMANCE

| | |
|-----------------------|---|
| Dimension (L x W x H) | 335 x 174 x 191 mm 13.2 x 6.9 x 7.5" |
| Approx. Weight | 28.2 lbs (12.8 kg) |
| Terminal Type | T11 |
| Terminal Torque | 80 ~ 100 in-lbs (9 ~ 11 N-m) |
| Case Material | ABS |
| Enclosure Protection | IP65 |

TEMPERATURE PERFORMANCE

| | |
|------------------------------|---------------------------|
| Discharge Temperature | -4 ~ 131 °F (-20 ~ 55 °C) |
| Charge Temperature | -4 ~ 113 °F (-20 ~ 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) |

HEATING FOIL PERFORMANCE

| | |
|---------------------------|-------------------------------|
| Heating Temperature Range | -4 to 50 °F (-20 to 10 °C) |
| Heating Time | Approximately 1.2 hrs @ 7.5 A |
| BMS Heating Foil Cut-Off | 158 °F (70 °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.



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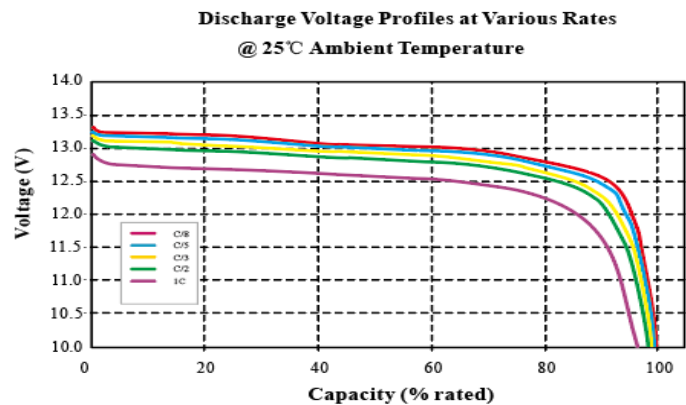
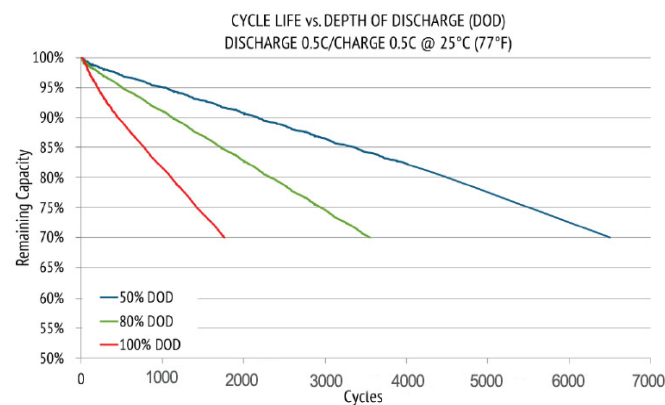
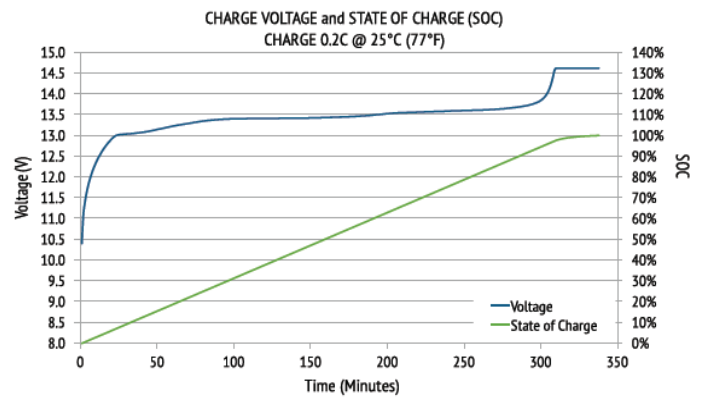
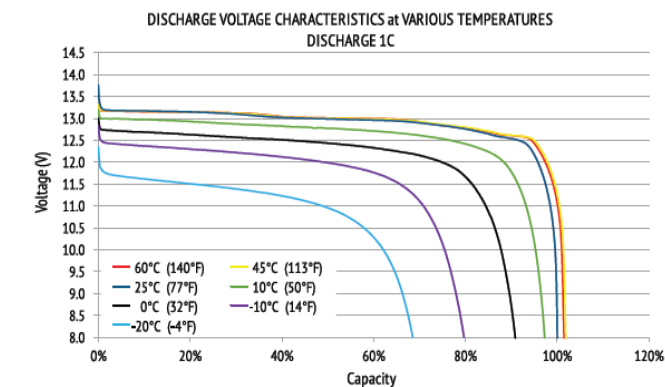


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SPF12V100-DLT Low Temperature Battery

DIN

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.



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, 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.

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