SUPER SP PACK®
Best Solution of Battery

Guangdong Superpack Technology Co., Ltd.

# SPF12V300-ST Standard Type Battery Group: 8D

## LITHIUM IRON PHOSPHATE BATTERY

| ELECTRICAL PERFORMANCE | |
|---|---|
| Nominal Voltage | 12.8 V |
| Nominal Capacity | 300 Ah |
| Capacity @ 60A | 300 min |
| Energy | 3840 Wh |
| Resistance | ≤8 mΩ @ 50% SOC |
| Self Discharge | <3% / Month |
| Cells | IFR26650EC |

| CHARGE PERFORMANCE | |
|---|---|
| Recommended Charge Current | 60 A |
| Maximum Charge Current | 150 A |
| Recommended Charge Voltage | 14.6 V |
| BMS Charge Cut-Off Voltage | <15.6 V (3.9V/Cell) |
| Reconnect Voltage | >14.0 V (3.5V/Cell) |
| Balancing Voltage | <14.4 V (3.6V/Cell) |
| Maximum Batteries in Series | 4 |

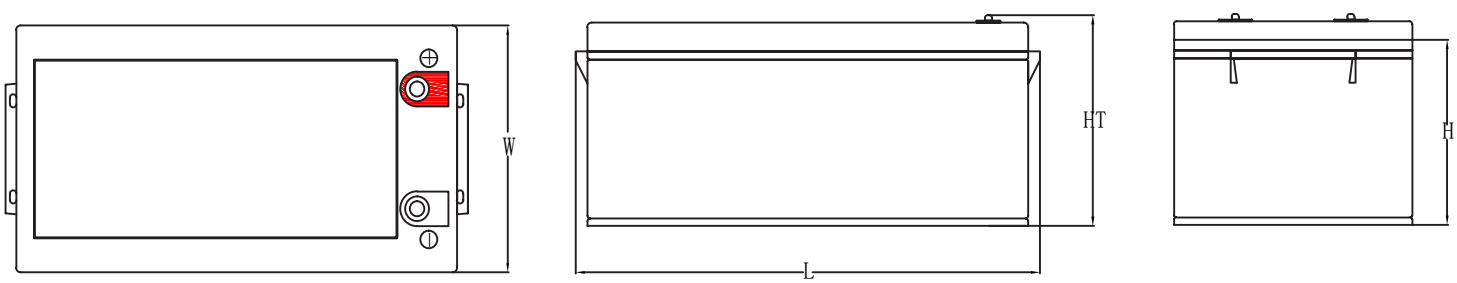
| MECHANICAL PERFORMANCE | |
|---|---|
| Dimension (L x W x H) | 520 x 268x 229 mm<br>20.5 x 10.6 x 9.0” |
| Approx. Weight | 78.7 lbs (35.7 kg) |
| Terminal Type | T11 |
| Terminal Torque | 80 ~ 100 in-lbs (9 ~ 11 N-m) |
| Case Material | ABS |
| Enclosure Protection | IP65 |

| DISCHARGE PERFORMANCE | |
|---|---|
| Maximum Continuous Discharge Current | 150 A |
| Peak Discharge Current | 300 A (3s) |
| BMS Discharge Cut-Off Current | 450A ±20 A (31 ms) |
| Recommended Low Voltage Disconnect | 11 V (2.75V/Cell) |
| BMS Discharge Cut-Off Voltage | >8.0 V (3s) (2.0V/Cell) |
| Reconnect Voltage | >10.8 V (2.7V/Cell) |
| Short Circuit Protection | 250 ~ 500 μs |

| TEMPERATURE PERFORMANCE | |
|---|---|
| Discharge Temperature | -4 ~ 140 ºF (-20 ~ 60 ºC) |
| Charge Temperature | 32 ~ 113 ºF (0 ~ 45 ºC) |
| Storage Temperature | 23 ~ 95 ºF (-5 ~ 35 ºC) |
| BMS High Temperature Cut-Off | 167 ºF (75 ºC) |
| Reconnect Temperature | 149 ºF (65 ºC) |

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

## OUTLINE DIMENSION




| L mm(”) | W mm(”) | H mm(”) | HT mm(”) |
|---|---|---|---|
| 520 (20.5) | 268 (10.6) | 221 (8.7) | 229 (9.0) |



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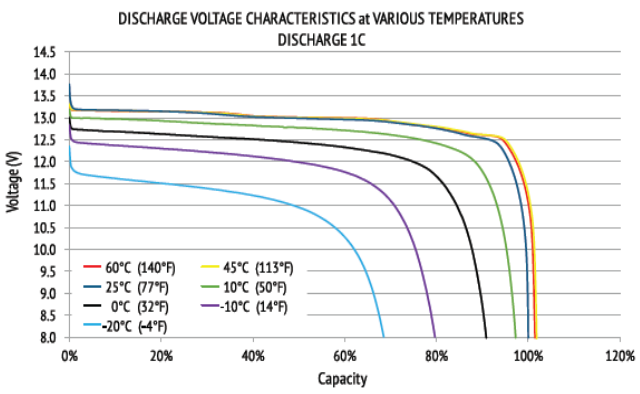
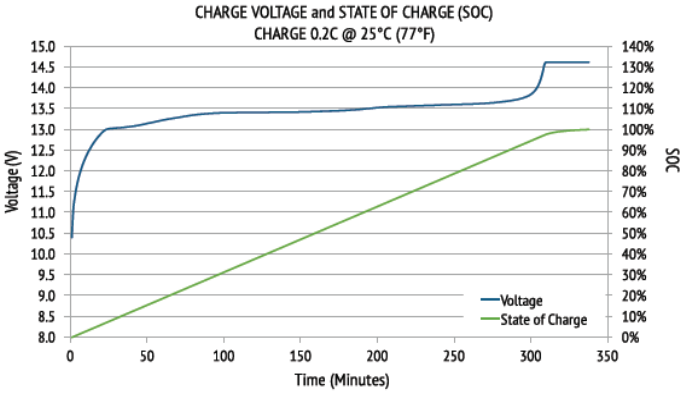
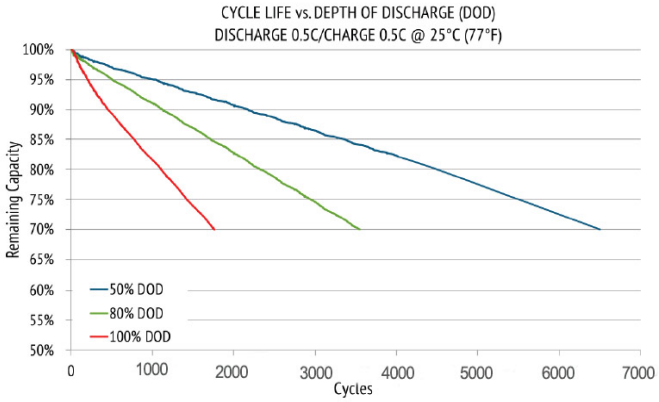
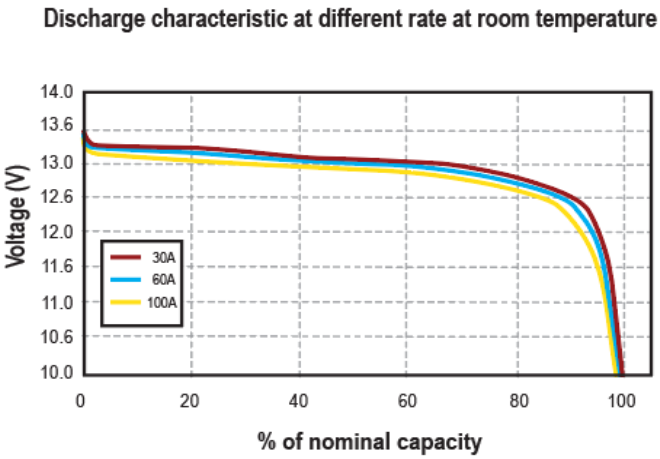
## PERFORMANCE CHARACTERISTICS




## 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.

**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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