SUPERSPPACK®
Best Solution of Battery

Guangdong Superpack Technology Co., Ltd.

SPF12V100-DLT Low Temperature Battery DIN-S

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL PERFORMANCE	
Nominal Voltage	12.8 V
Nominal Capacity	100 Ah
Capacity @ 20A	300 min
Energy	1280 Wh
Resistance	≤10 mΩ @ 50% SOC
Self Discharge	<3% / Month
Cells	Cylindrical

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	4 (*Consult Superpack)

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

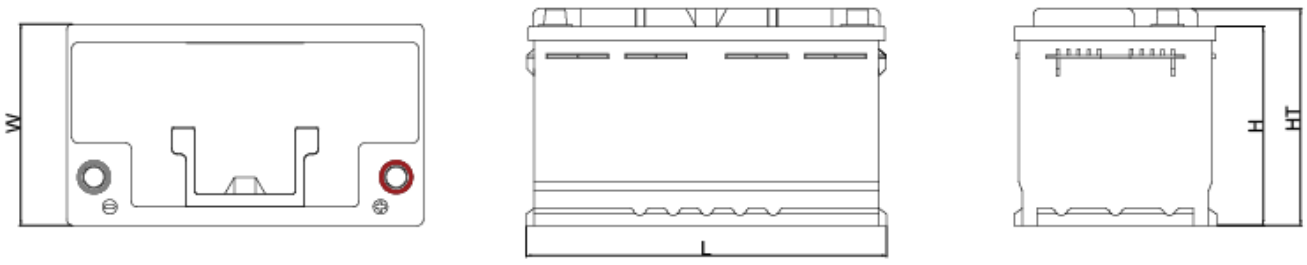
MECHANICAL PERFORMANCE	
Dimension (L x W x H)	318 x 175 x 190 mm 12.5 x 6.9 x 7.5”
Approx. Weight	27.8 lbs (12.6 kg)
Terminal Type	DIN POST
Terminal Torque	80 ~ 100 in-lbs (9 ~ 11 N-m)
Case Material	ABS
Enclosure Protection	IP65

TEMPERATURE PERFORMANCE	
Discharge Temperature	-4 ~ 131 ºF (-20 ~ 55 ºC)
Charge Temperature	-4 ~ 113 ºF (-20 ~ 45 ºC)
Storage Temperature	23 ~ 95 ºF (-5 ~ 35 ºC)
BMS High Temperature Cut-Off	149 ºF (65 ºC)
Reconnect Temperature	131 ºF (55 ºC)

HEATING FOIL PERFORMANCE	
Heating Temperature Range	-4 to 41 ºF (-20 to 5 ºC)
Heating Time	Approximately 1 hour @ 7.5 A
BMS Heating Foil Cut-Off	158 ºF (70 ºC)

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(”)
318 (12.5)	175 (6.9)	170 (6.7)	190 (7.5)

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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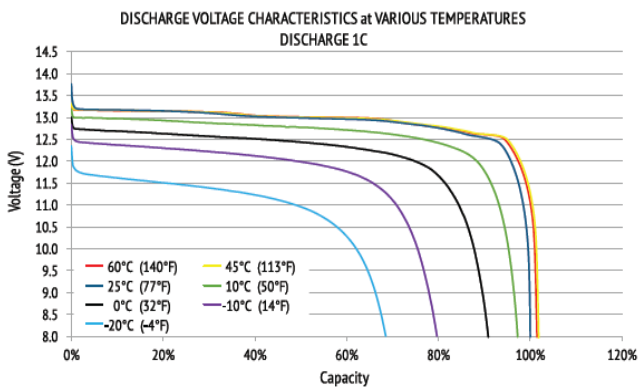
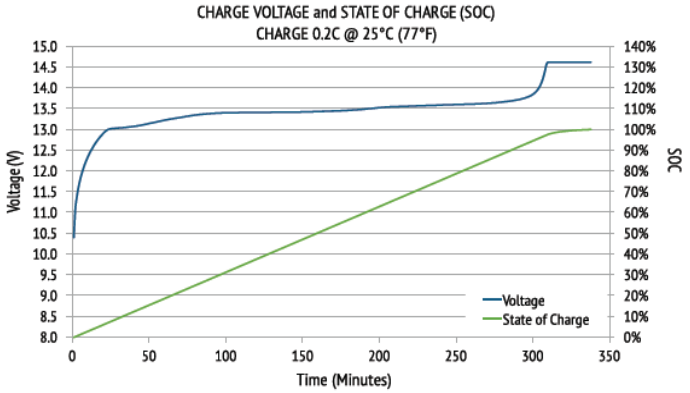
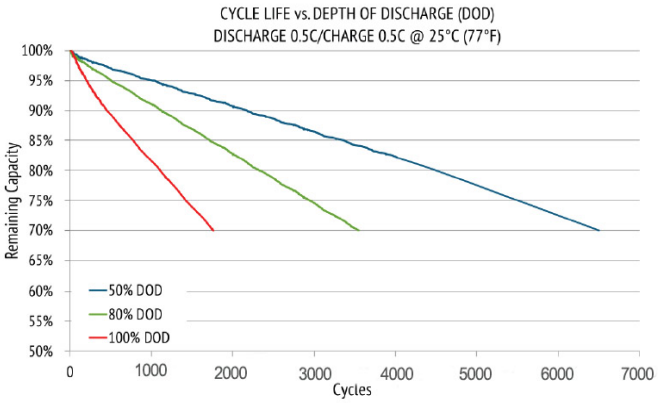
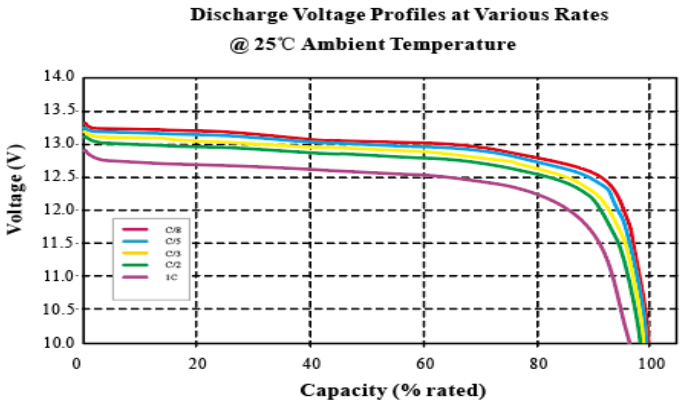
PERFORMANCE CHARACTERISTICS









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 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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