

磷酸铁锂电池组

LITHIUM IRON PHOSPHATE BATTERY

电性能ELECTRICAL PERFORMANCE

标称电压Nominal Voltage	12.8 V
标称容量Nominal Capacity	20Ah
放电时间Capacity @ 4.8A	300 min
功率Energy	256 Wh
内阻Resistance	≤70 mΩ @ 50% SOC
自耗电Self Discharge	<3% / Month
电芯Cells	32700Cell 3.2V6Ah

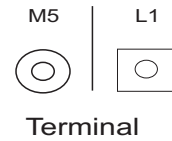
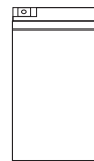
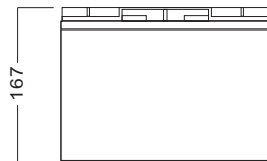
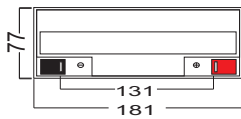
充电性能CHARGE PERFORMANCE

标准充电电流	4 A
Recommended Charge Current	
最大充电电流Max Charge Current	10 A
建议充电电压	14.6 V
Recommended Charge Voltage	
充电截止电压	<15.2 V (0.5 ~ 1.5 s)
Charge Cut-Off Voltage	
充电恢复电压Reconnect Voltage	>14.4 V
均衡电压Balancing Voltage	<14 V
最大串联数量Maximum Batteries in Series	4

放电性能DISCHARGE PERFORMANCE

标准放电电流	10 A
Continuous Discharge Current	
持续最大放电电流	20 A
Maximum continuous Discharge Current	
峰值最大截止电流	50 A (5 ~ 15 ms)
Peak Discharge Cut-Off Current	
建议截止低电压	10 V
Recommended Low Voltage Disconnect	
放电截止电压	>8.4 V (50 ~ 150 ms)
Discharge Cut-Off Voltage	
放电恢复电压Reconnect Voltage	>10 V
短路保护时间Short Circuit Protection	80 ~ 200 μs

外形尺寸



Terminal

机械性能MECHANICAL PERFORMANCE

尺寸 (长X宽X高)	181 x 77 x 168 mm
Dimension (L x W x H)	7.12 x 3.03 x 6.61"
重量Approx. Weight	2.55 kg
端子类型Terminal Type	M5
终端扭矩Terminal Torque	80 ~ 100 in-lbs (9 ~ 11 N-m)
外壳材质Case Material	ABS
防护等级Enclosure Protection	IP65

温度性能TEMPERATURE PERFORMANCE

放电温度Discharge Temperature	-4 ~ 140 °F (-20 ~ 60 °C)
充电温度Charge Temperature	32 ~ 113 °F (0 ~ 45 °C)
储存温度Storage Temperature	23 ~ 95 °F (-5 ~ 35 °C)
截止温度	149 °F (65 °C)
High Temperature Cut-Off	
恢复温度	118 °F (48 °C)
Reconnect Temperature	

认证COMPLIANCE

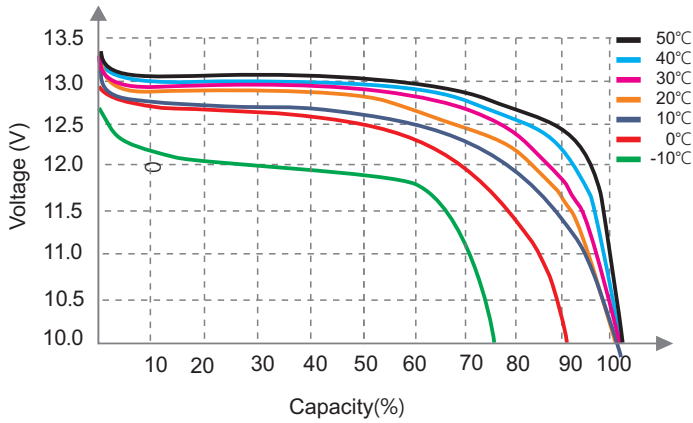
证书Certifications	CE UN38.3 UL1642 & IEC62133
运输证书Shipping Classification	UN 3480, CLASS 9

L mm(")	W mm(")	H mm(")	HT mm(")
181 (7.12)	77 (3.03)	168 (6.61)	

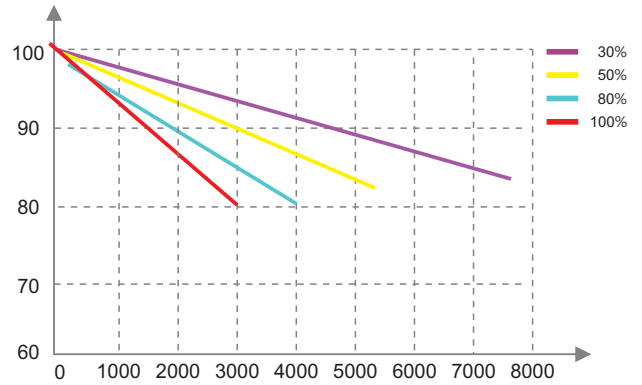
SM12.8V20Ah

PERFORMANCE CHARACTERISTICS

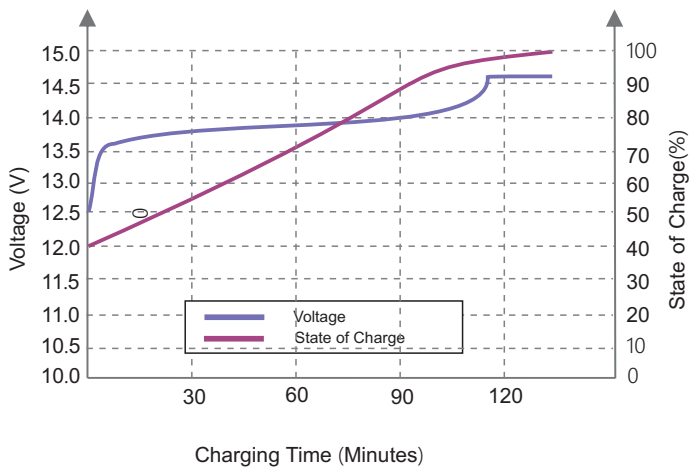
Different Temperature Discharge Curve(0.5C)



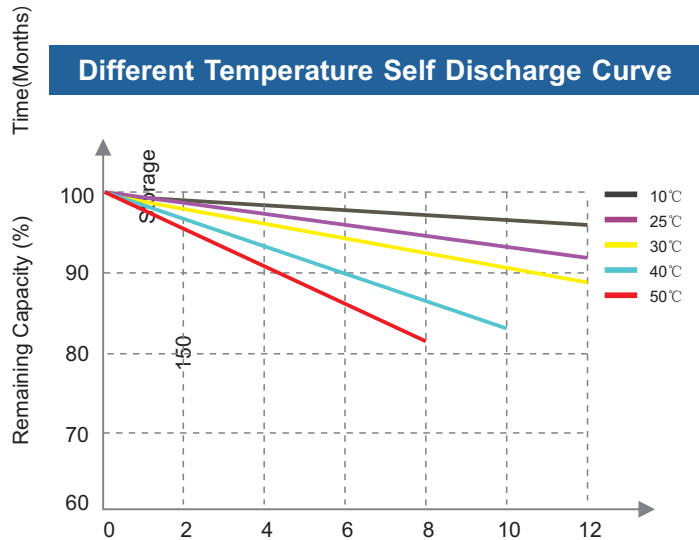
Different DOD Discharge Cycle Life Curve(1C)



State of Charge Curve(0.5C, 25°C)



Different Temperature Self Discharge Curve



FEATURES



High cycle life

>4000 cycles @80% DoD for effectively lower total cost of ownership.



Longer service life

Low maintenance batteries with stable chemistry. Easily monitor state of charge (SoC) of smart models.



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:

- Caravan
- 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 50% capacity. Recharge every 3 months. The storage area should be clean, cool, dry and ventilated.

