

## 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	50 Ah
充电时间Capacity @ 10.8A	300 min
功率Energy	640 Wh
内阻Resistance	≤45 mΩ @ 50% SOC
自耗电Self Discharge	<3% / Month
电芯Cells	32700 Cell 3.2V6Ah

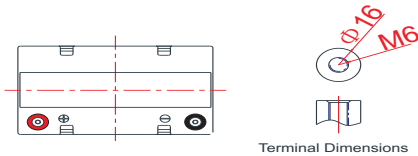
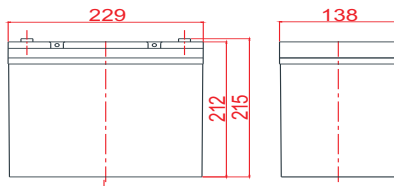
## 充电性能CHARGE PERFORMANCE

标准充电电流	10.8 A
Recommended Charge Current	
最大充电电流Max Charge Current	22 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	22 A
Continuous Discharge Current	
持续最大放电电流	50 A
Maximum continuous Discharge Current	
峰值最大截止电流	110 A (5 ~15 ms)
Peak Discharge Cut-Off Current	
建议低电压	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	200 ~ 600 μs

## 外形尺寸OUTLINE DIMENSION



Terminal Dimensions

## 机械性能MECHANICAL PERFORMANCE

尺寸 (长X宽X高)	229*138*212*215MM
Dimension (L x W x H)	
重量Approx. Weight	6.5 kg
端子类型Terminal Type	M6
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

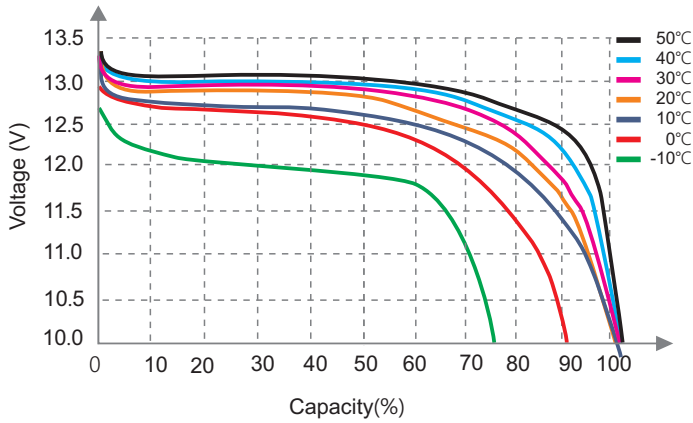
证书Certifications	CE UN38.3 UL1642 & IEC62133
运输证书Shipping Classification	UN 3480, CLASS 9

L mm(")	W mm(")	H mm(")	HT mm(")
229	138	212	215

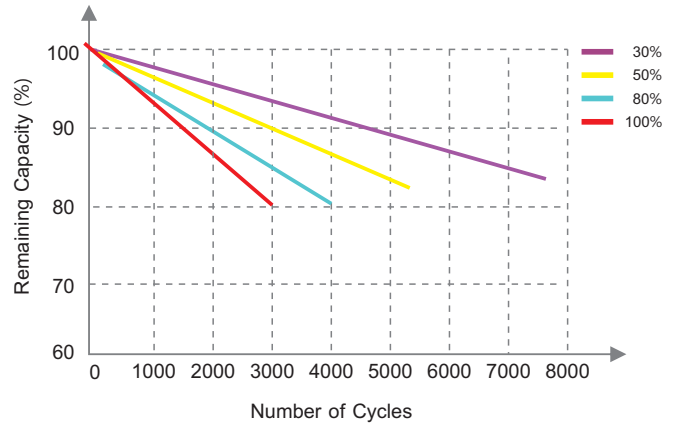
# SM12.8V50Ah

## PERFORMANCE CHARACTERISTICS

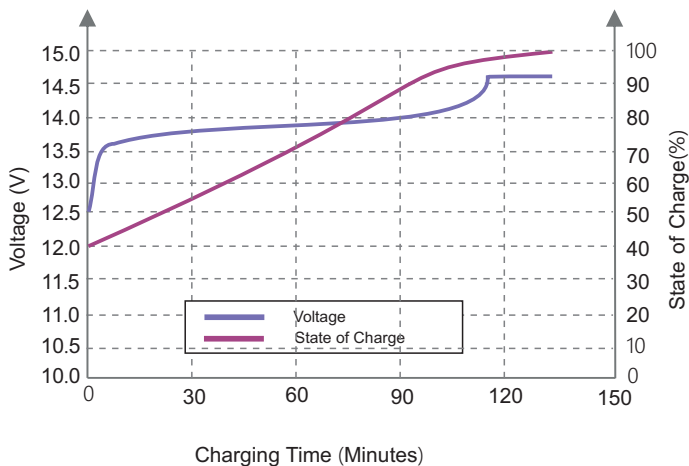
Different Temperature Discharge Curve(0.5C)



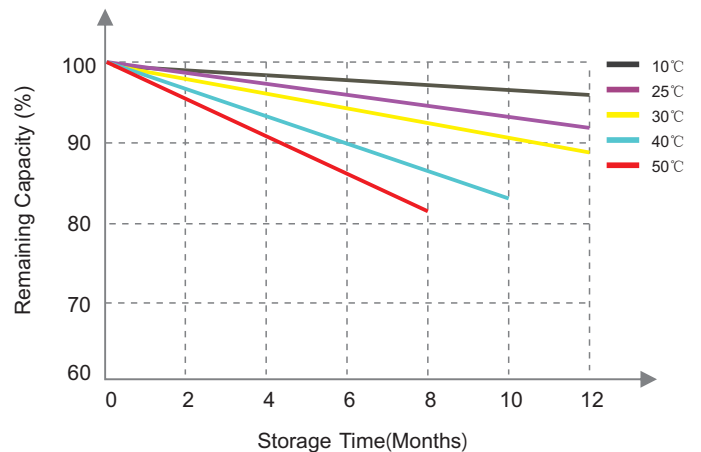
Different DOD Discharge Cycle Life Curve(1C)



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.