

| | | | | |
|--|----------------------------------|--|-------------------------------------|---|
| Pb-C技术 Lead Carbon technology | AGM技术 AGM separator | 多元稀土合金 Multi-element patent rare earth alloy | PSoC技术 PSoC technology | 60%放电循环 60%DOD ≥3600cycles |
|--|----------------------------------|--|-------------------------------------|---|



应用领域 Product Applications

| | |
|--------------------------|-------------------------|
| 通信 COMMUNICATION | 风能 WIND ENERGY |
| 数据中心 Data Center | 太阳能 SOLAR ENERGY |
| 不间断电源 UPS | 工业 INDUSTRIAL |
| 电力 ELECTRIC POWER | |

产品特性 Product Specifications

| 额定电压 Nominal Voltage | 额定容量 Rated Capacity (10hr) | 内阻 Internal Resistance | 短路电流 Short Circuit Current | 推荐使用温度范围 Operating Temp. Range |
|-------------------------|---|---------------------------|-------------------------------|---|
| 12V | 50Ah/0.6kWh (25°C/77°F , 1.80V/cell) | 10mΩ@25°C(77°F) | 600A(5s) | 放电 Discharge : -15~50°C (5~122°F) 充电 Charge : 0~40°C (32~104°F) 储存 Storage : -15~40°C (5~104°F) 最佳 Optimum : 25±3°C (77±5°F) |

物理特性 Physical Specifications

| 材料 Material | 端子 Terminal Type | 尺寸 Dimensions | | | | 重量 Weight |
|---------------------------------|---------------------|-----------------------|----------------------|----------------------|------------------------|----------------------|
| | | 长 Length | 宽 Width | 高 Height | 总高 TH | |
| ABS UL94-HB (阻燃 ABS UL94-V0) | I3 | 260±1mm (10.24 inch.) | 168±1mm (6.61 inch.) | 211±1mm (8.31 inch.) | 213.5±1mm (8.41 inch.) | 26.2kg 57.77(lbs) |
| | | | | | | |

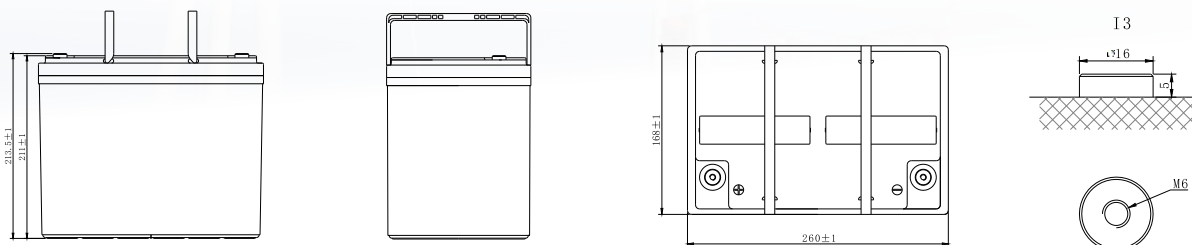
恒流放电参数 Constant Current Discharge(A)@25°C(77°F)

| 终止电压/时间 F.V / Time | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h | 72h | 100h | 120h |
|-----------------------|-------|-------|-------|------|------|------|------|------|------|------|------|------|-------|-------|-------|
| 1.85V/cell | 47.0 | 39.0 | 31.4 | 26.1 | 15.9 | 11.9 | 9.76 | 8.38 | 7.38 | 5.93 | 4.92 | 2.63 | 0.810 | 0.625 | 0.527 |
| 1.80V/cell | 52.2 | 41.8 | 33.0 | 27.3 | 16.7 | 12.5 | 10.1 | 8.62 | 7.55 | 6.08 | 5.00 | 2.66 | 0.819 | 0.633 | 0.533 |
| 1.75V/cell | 56.4 | 44.2 | 34.7 | 28.6 | 17.3 | 12.9 | 10.4 | 8.84 | 7.73 | 6.20 | 5.08 | 2.70 | 0.830 | 0.641 | 0.540 |
| 1.70V/cell | 60.2 | 46.4 | 36.0 | 29.5 | 18.0 | 13.4 | 10.7 | 9.04 | 7.91 | 6.31 | 5.17 | 2.72 | 0.839 | 0.647 | 0.551 |
| 1.67V/cell | 63.4 | 48.8 | 37.5 | 30.6 | 18.6 | 13.7 | 11.0 | 9.26 | 8.08 | 6.42 | 5.26 | 2.76 | 0.849 | 0.655 | 0.561 |
| 1.60V/cell | 65.7 | 50.4 | 38.5 | 31.3 | 19.0 | 13.9 | 11.2 | 9.50 | 8.23 | 6.50 | 5.33 | 2.79 | 0.859 | 0.663 | 0.568 |

恒功率放电参数 Constant Power Discharge(W/cell)@25°C(77°F)

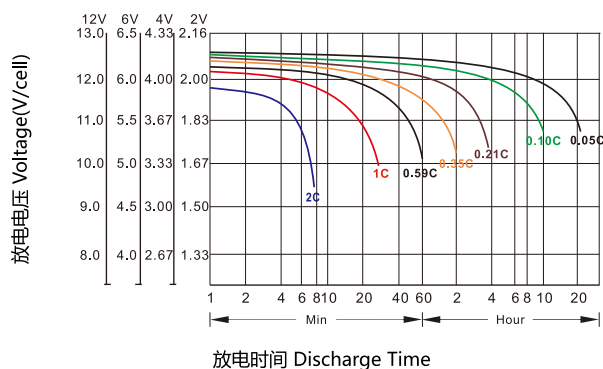
| 终止电压/时间 F.V / Time | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h | 72h | 100h | 120h |
|-----------------------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 900 | 75.5 | 61.4 | 51.2 | 31.5 | 23.7 | 19.5 | 16.7 | 14.8 | 11.9 | 9.91 | 5.38 | 1.66 | 1.28 | 1.08 |
| 1.80V/cell | 99.0 | 80.1 | 64.0 | 53.3 | 32.7 | 24.6 | 20.0 | 17.1 | 15.1 | 12.2 | 10.1 | 5.43 | 1.67 | 1.29 | 1.09 |
| 1.75V/cell | 105.6 | 84.1 | 66.9 | 55.5 | 33.9 | 25.5 | 20.5 | 17.5 | 15.4 | 12.4 | 10.2 | 5.49 | 1.69 | 1.31 | 1.10 |
| 1.70V/cell | 112.0 | 87.5 | 68.9 | 57.1 | 35.1 | 26.2 | 21.0 | 17.9 | 15.7 | 12.6 | 10.4 | 5.55 | 1.71 | 1.32 | 1.13 |
| 1.67V/cell | 116.6 | 91.4 | 71.5 | 58.8 | 36.1 | 26.7 | 21.5 | 18.2 | 16.0 | 12.8 | 10.5 | 5.60 | 1.73 | 1.33 | 1.14 |
| 1.60V/cell | 119.6 | 93.6 | 72.9 | 59.8 | 36.6 | 27.0 | 21.9 | 18.6 | 16.2 | 12.9 | 10.6 | 5.66 | 1.74 | 1.35 | 1.15 |

外形尺寸 Battery Dimensions(mm)

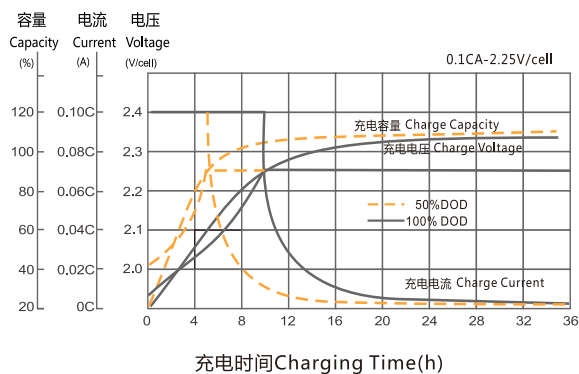


电性能 Electrical Characteristics

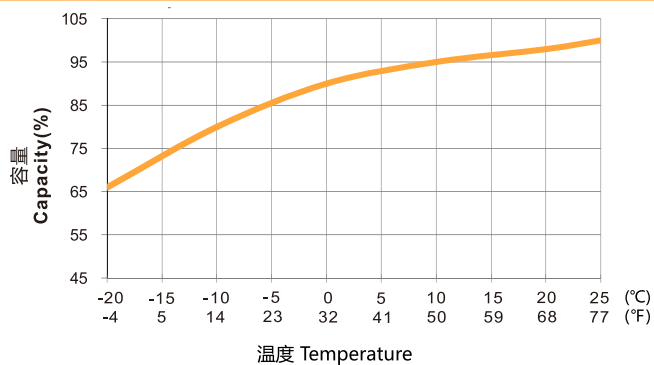
不同倍率放电特性 Discharge Characteristics(25°C/77°F)



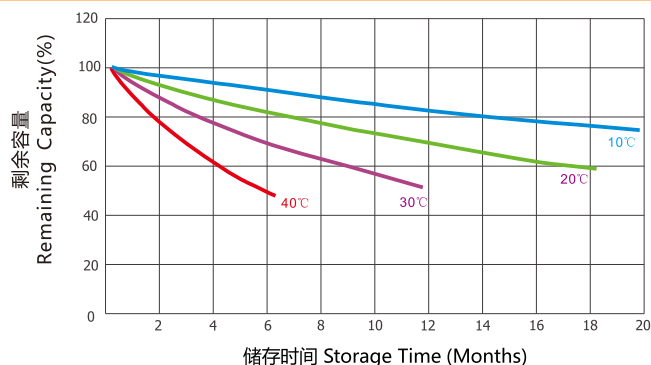
充电特性曲线 Charging Characteristics



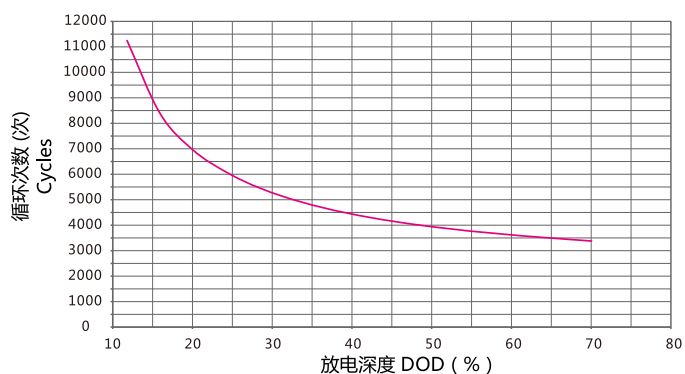
电池容量曲线 Capacity vs Temperature



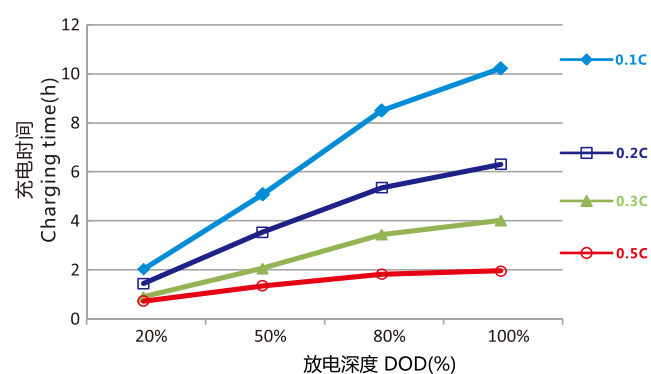
自放电曲线 Self-discharge vs Time



循环次数与放电深度 Cycle Life vs DOD



充电时间与放电深度 Charging Time vs DOD



充电电流 Charge Current

限流: $\leq 0.4C_{10}A$
Limited current: $\leq 0.4C_{10}A$

快速充电 Fast Charge

恒压 Constant voltage: 13.8~14.4V@25°C(77°F)
温度补偿系数 Temp. Coefficient: -30mV/°C

浮充充电 Float Charge

恒压 Constant voltage: 13.2~13.8V@25°C(77°F)
温度补偿系数 Temp. Coefficient: -20mV/°C