

高性能设计  
High performance

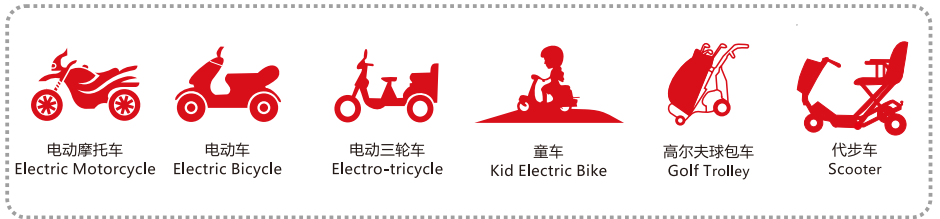
AGM技术  
AGM separator

多元稀土合金  
Multi-element patent rare earth alloy

80%放电循环  
400~600次  
80%DOD  
400~600cycles



## 应用领域 Product Applications



## 产品特性 Product Specifications

额定电压 Nominal Voltage	额定容量 Rated Capacity(2hr)	推荐使用温度范围 Operating Temp. Range	不同温度下的容量 Capacity Effected by Temp.	存放容量@25°C/77°F Capacity vs Storage Time
16V	14Ah@25°C (77°F, 1.75V/cell)	放电 Discharge: -20~+55°C (-4~131°F) 充电 Charge: 0~+40°C (32~104°F) 储存 Storage: -20~+50°C (-4~122°F) 最佳 Optimum: 25±3°C (77±5°F)	+ 4 0°C (1 0 4°F): 1 0 2 % + 3 0°C (8 6°F): 1 0 0 % 0 °C ( 3 2 °F): 8 5 % - 1 5°C ( 5 °F): 7 5 %	3个月(three month): 90 % 6个月(six months): 80 % 9个月(nine months): 65 %

## 物理特性 Physical Specifications

材料 Material	尺寸 Dimensions				重量 Weight
	长 Length	宽 Width	高 Height	总高 TH	
ABS UL94-HB (阻燃 ABS UL94-V0)	201±3mm (7.91 inch.)	113±2mm (4.45 inch.)	100±2mm (3.94 inch.)	105±2mm (4.13 inch.)	6.55kg (14.4lbs)

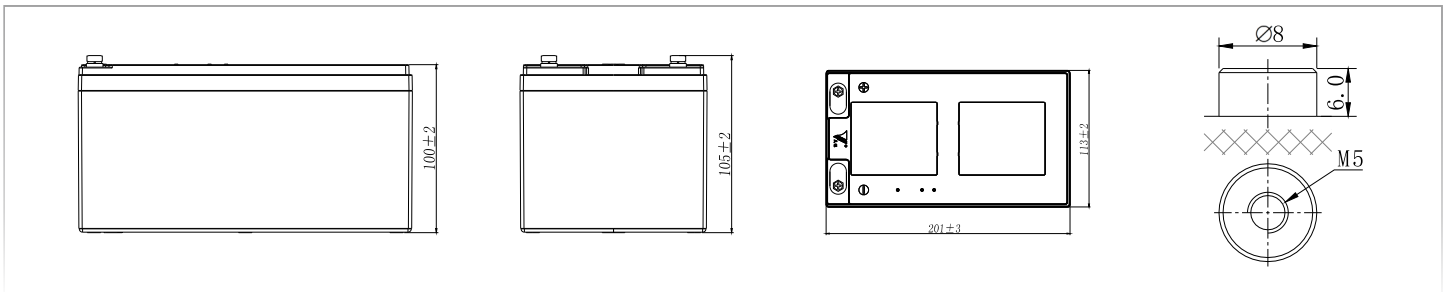
## 恒流放电参数 Constant Current Discharge(A)@25°C(77°F)

终止电压/时间 F.V / Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	56.0	40.2	32.3	26.7	20.0	16.4	12.0	6.84	4.95	3.83	3.10	2.60	1.97	1.59	0.83
1.80V/cell	60.5	43.6	33.7	27.5	20.5	16.7	12.2	6.94	5.02	3.87	3.13	2.62	1.99	1.61	0.85
1.75V/cell	64.0	45.1	34.8	28.2	20.9	17.0	12.4	7.02	5.08	3.90	3.15	2.64	2.00	1.62	0.85
1.70V/cell	65.8	46.3	35.5	28.8	21.3	17.3	12.5	7.10	5.11	3.92	3.16	2.65	2.01	1.63	0.86
1.67V/cell	67.0	47.3	36.2	29.5	21.7	17.5	12.7	7.15	5.14	3.93	3.17	2.66	2.02	1.63	0.86
1.60V/cell	68.8	48.1	37.0	30.1	22.3	17.8	12.8	7.25	5.17	3.95	3.18	2.67	2.02	1.63	0.86

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

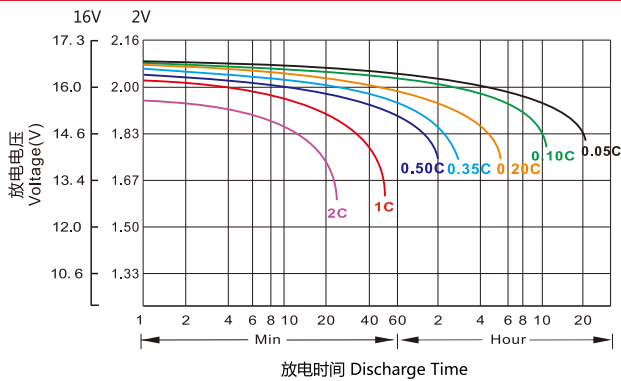
终止电压/时间 F.V / Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	104.4	76.2	61.8	51.8	39.5	32.5	23.8	13.7	9.91	7.67	6.21	5.20	3.94	3.18	1.67
1.80V/cell	111.2	82.4	64.5	53.2	40.4	33.1	24.2	13.9	10.0	7.74	6.26	5.25	3.99	3.23	1.70
1.75V/cell	114.8	85.1	66.6	54.5	41.2	33.7	24.6	14.0	10.1	7.79	6.29	5.28	4.00	3.24	1.70
1.70V/cell	115.4	87.0	67.9	55.7	41.9	34.2	24.9	14.2	10.2	7.82	6.32	5.30	4.02	3.25	1.71
1.67V/cell	115.5	88.6	69.2	56.9	42.6	34.6	25.2	14.2	10.2	7.84	6.33	5.31	4.02	3.25	1.71
1.60V/cell	117.1	89.9	70.6	58.1	43.6	35.1	25.4	14.4	10.3	7.86	6.34	5.32	4.03	3.26	1.71

**外形尺寸 Battery Dimensions(mm)**

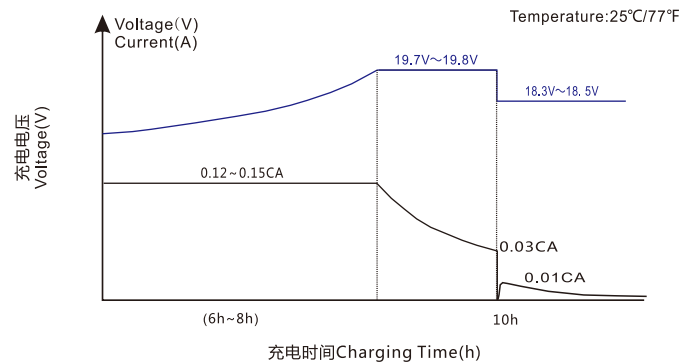


**电性能 Electrical Characteristics**

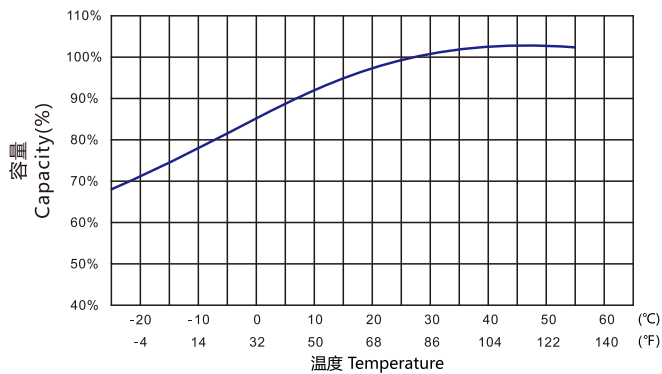
**不同倍率放电特性 Discharge Characteristics(25°C/77°F)**



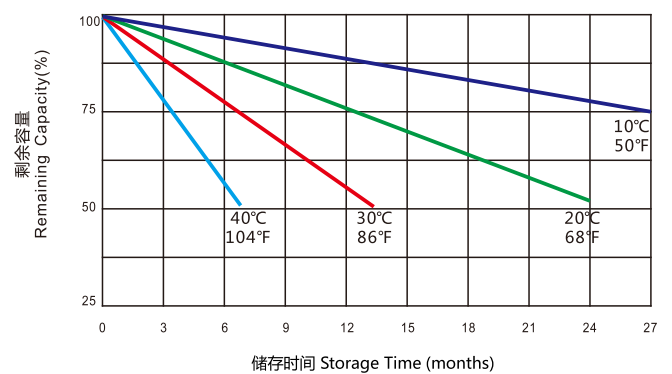
**充电特性曲线 Charging Characteristics**



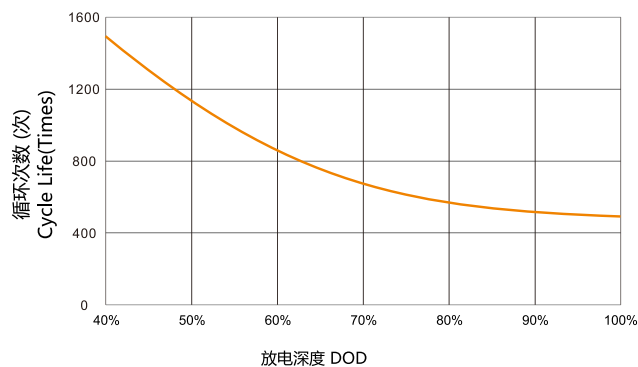
**电池容量曲线 Capacity vs Temperature**



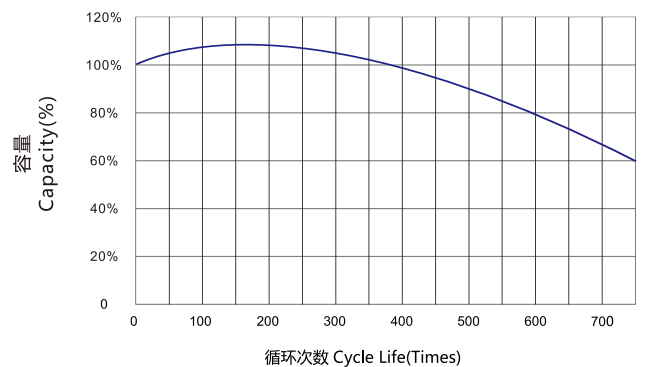
**自放电曲线 Self-discharge vs Time**



**循环次数与放电深度 Cycle Life vs Depth of Discharge**



**循环次数与容量 Cycle Life vs Capacity@25°C(77°F)**



**充电电流 Charge Current**

限流: ≤0.3CA  
Limited current: ≤0.3CA

**快速充电 Fast Charge**

恒压 Constant voltage: 19.75V@25°C(77°F)  
温度补偿系数 Temp. Coefficient: -30mV/°C

**浮充充电 Float Charge**

恒压 Constant voltage: 18.4V@25°C(77°F)  
温度补偿系数 Temp. Coefficient: -18mV/°C