

高性能设计
High
performance

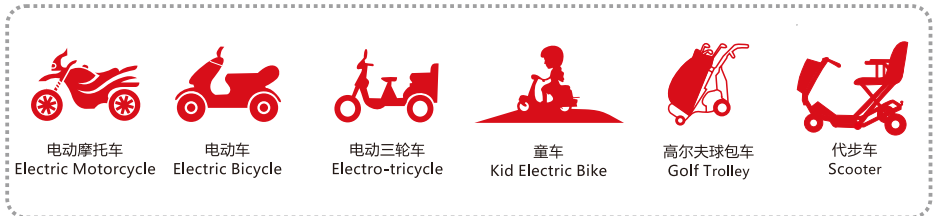
AGM技术
AGM
separator

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
12V	21Ah@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)	189±3mm (7.44 inch.)	100±2mm (3.94 inch.)	130±2mm (5.12 inch.)	130±2mm (5.12 inch.)	7.0kg (15.4lbs)

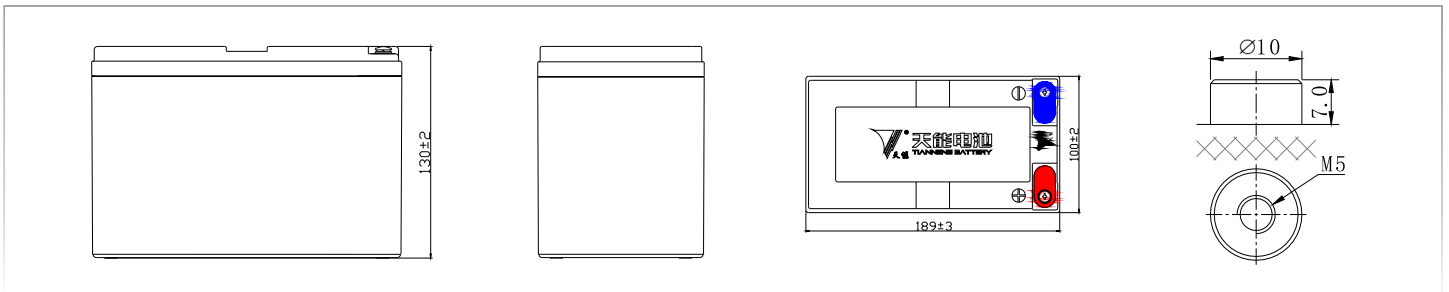
恒流放电参数 Constant Current Discharge(A)@25°C(77°F)

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	83.8	60.1	48.3	40.0	30.0	24.5	17.9	10.2	7.41	5.73	4.64	3.88	2.94	2.38	1.24
1.80V/cell	90.5	65.2	50.4	41.2	30.7	25.0	18.2	10.4	7.51	5.79	4.68	3.93	2.98	2.41	1.27
1.75V/cell	95.7	67.5	52.1	42.2	31.3	25.5	18.5	10.5	7.59	5.83	4.71	3.95	2.99	2.42	1.27
1.70V/cell	98.5	69.2	53.1	43.1	31.9	25.8	18.7	10.6	7.65	5.86	4.73	3.97	3.01	2.43	1.28
1.67V/cell	100.3	70.7	54.2	44.1	32.5	26.2	19.0	10.7	7.69	5.88	4.75	3.98	3.02	2.44	1.28
1.60V/cell	102.9	72.0	55.4	45.1	33.3	26.6	19.1	10.8	7.73	5.91	4.76	3.99	3.02	2.44	1.28

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

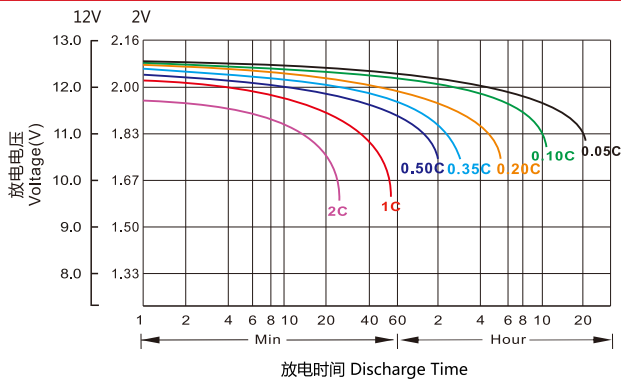
终止电压/时间 F.V / Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	156.1	113.9	92.5	77.4	59.0	48.6	35.6	20.5	14.8	11.5	9.28	7.78	5.89	4.76	2.49
1.80V/cell	166.3	123.2	96.5	79.6	60.4	49.5	36.2	20.8	15.0	11.6	9.36	7.86	5.96	4.83	2.54
1.75V/cell	171.7	127.3	99.6	81.5	61.6	50.4	36.8	21.0	15.2	11.7	9.41	7.90	5.98	4.85	2.55
1.70V/cell	172.6	130.1	101.5	83.3	62.7	51.1	37.2	21.2	15.3	11.7	9.45	7.93	6.01	4.86	2.56
1.67V/cell	172.8	132.6	103.4	85.1	63.7	51.8	37.6	21.3	15.3	11.7	9.46	7.94	6.02	4.87	2.56
1.60V/cell	175.2	134.4	105.6	86.9	65.3	52.5	37.9	21.6	15.4	11.8	9.48	7.95	6.03	4.87	2.56

外形尺寸 Battery Dimensions(mm)

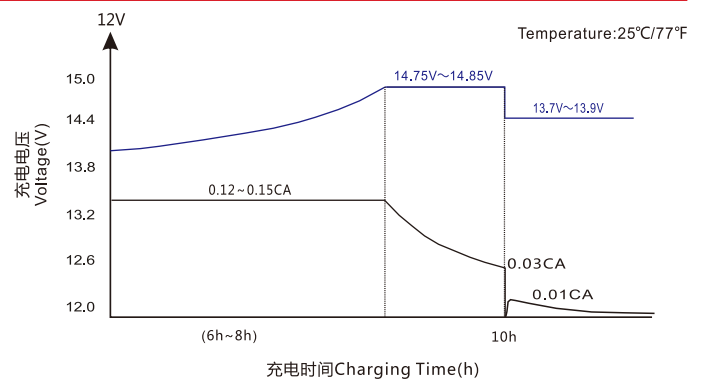


电性能 Electrical Characteristics

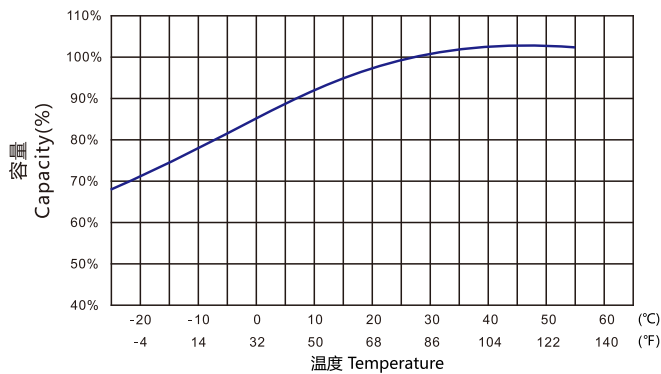
不同倍率放电特性 Discharge Characteristics(25°C/77°F)



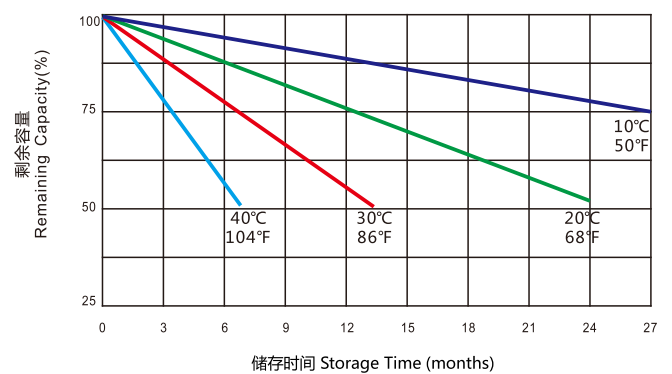
充电特性曲线 Charging Characteristics



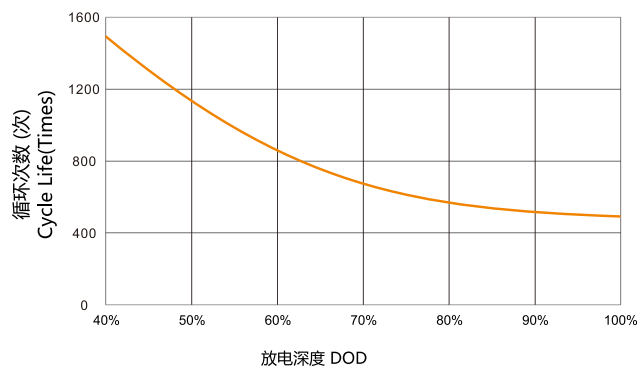
电池容量曲线 Capacity vs Temperature



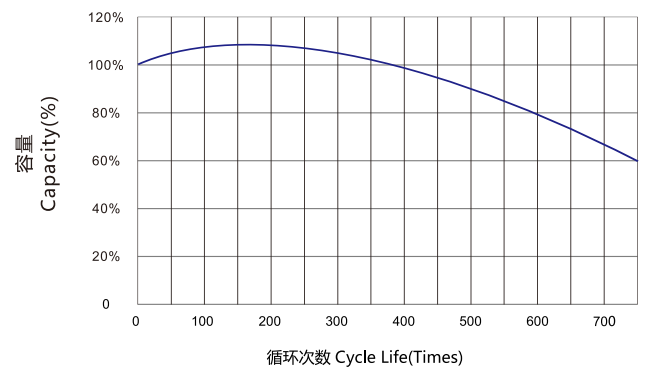
自放电曲线 Self-discharge vs Time



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: 14.80V@25°C(77°F)
温度补偿系数 Temp. Coefficient: -30mV/°C

浮充充电 Float Charge

恒压 Constant voltage: 13.80V@25°C(77°F)
温度补偿系数 Temp. Coefficient: -18mV/°C