



Pb-C技术
Lead Carbon
technology

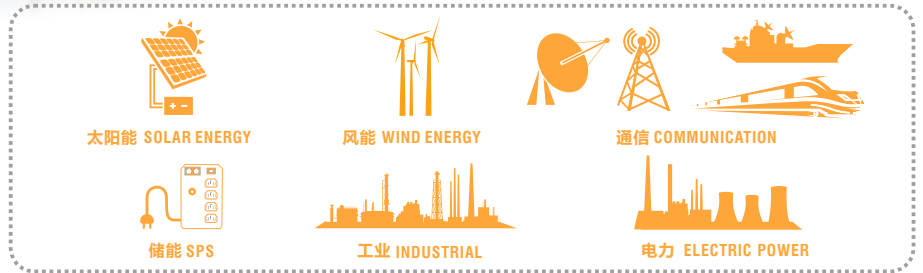
AGM技术
AGM
separator

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

HRPSoC技术
HRPSoC
technology

60%放电循环
60%DOD
≥2500cycles

应用领域 Product Applications



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	20Ah/0.24kWh (25°C/77°F, 1.80V/cell)	15.0mΩ@25°C(77°F)	300A(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	181±1mm (7.13 inch.)	77±1mm (3.03 inch.)	169±1mm (6.65 inch.)	171±1mm (6.73 inch.)	6.45kg 14.22(lbs)

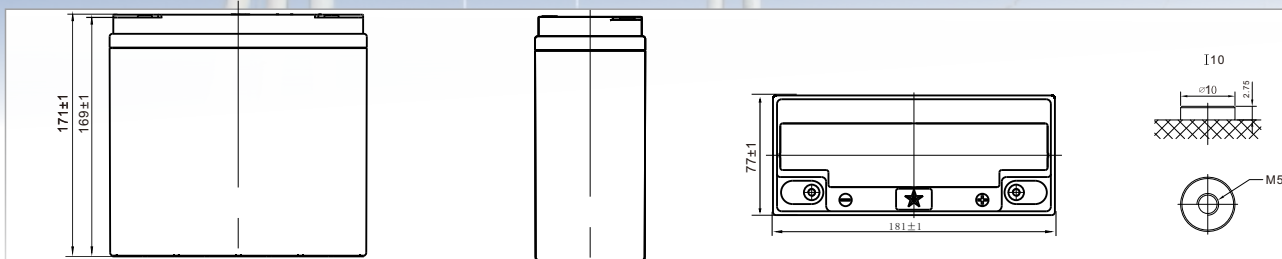
恒流放电参数 Constant Current Discharge(A)@25°C(77°F)

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	30.3	21.3	18.3	16.3	13.5	10.9	9.08	5.47	4.12	3.26	2.93	2.46	1.99	1.77	0.99
1.80V/cell	36.7	24.7	20.4	18.1	14.5	11.5	9.49	5.71	4.31	3.37	3.01	2.52	2.04	1.80	1.00
1.75V/cell	42.0	27.9	22.6	19.5	15.4	12.1	9.94	5.94	4.50	3.47	3.08	2.59	2.08	1.83	1.01
1.70V/cell	46.6	30.1	24.2	20.8	16.1	12.5	10.3	6.18	4.61	3.57	3.15	2.64	2.11	1.86	1.02
1.67V/cell	51.7	32.2	25.2	21.9	16.9	13.0	10.6	6.38	4.73	3.66	3.22	2.70	2.14	1.89	1.04
1.60V/cell	54.7	33.7	26.5	22.7	17.5	13.4	10.9	6.50	4.83	3.76	3.25	2.75	2.18	1.91	1.05

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

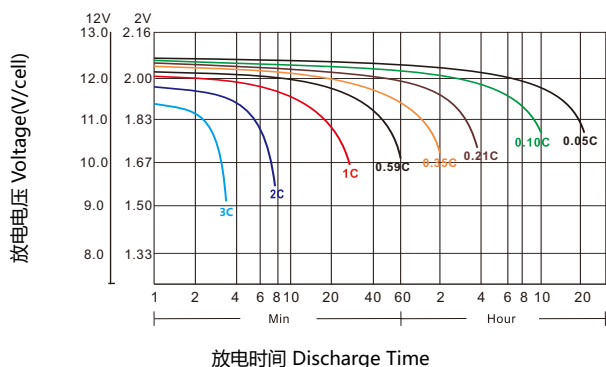
终止电压/时间 F.V / Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	56.6	40.2	34.8	31.3	26.3	21.5	17.9	10.9	8.22	6.53	5.87	4.95	4.02	3.58	1.89
1.80V/cell	67.6	46.1	38.4	34.4	27.9	22.4	18.6	11.3	8.56	6.73	6.02	5.06	4.11	3.64	1.91
1.75V/cell	75.8	51.2	42.0	36.7	29.3	23.4	19.4	11.7	8.91	6.88	6.13	5.17	4.17	3.68	1.93
1.70V/cell	82.4	54.5	44.5	38.9	30.5	24.1	19.9	12.1	9.10	7.06	6.26	5.27	4.24	3.75	1.95
1.67V/cell	89.8	57.2	45.9	40.6	31.8	25.0	20.6	12.5	9.30	7.23	6.38	5.37	4.29	3.80	1.97
1.60V/cell	93.1	59.1	47.5	41.6	32.6	25.5	20.9	12.6	9.43	7.37	6.40	5.45	4.35	3.84	1.99

外形尺寸 Battery Dimensions(mm)

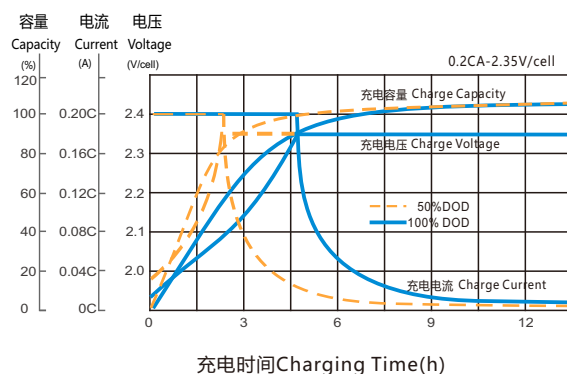


电性能 Electrical Characteristics

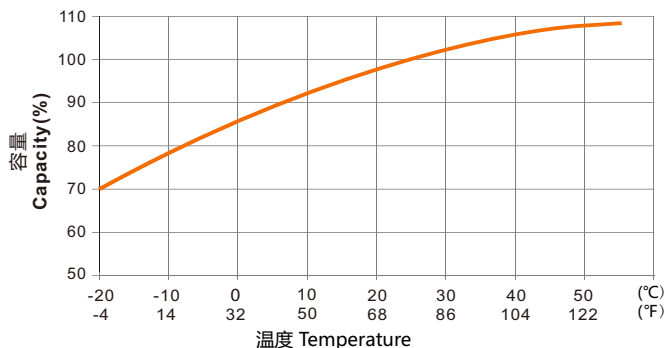
不同倍率放电特性 Discharge Characteristics(25°C/77°F)



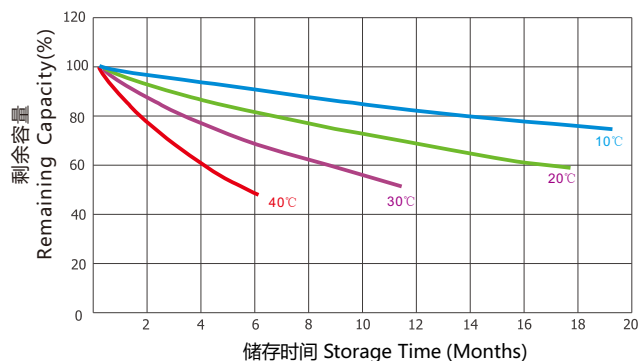
充电特性曲线 Charging Characteristics



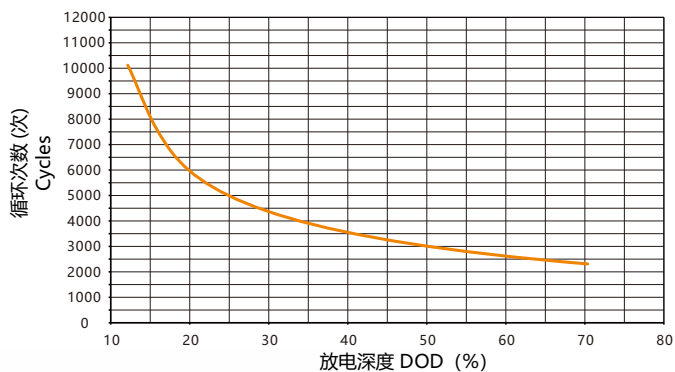
电池容量曲线 Capacity vs Temperature



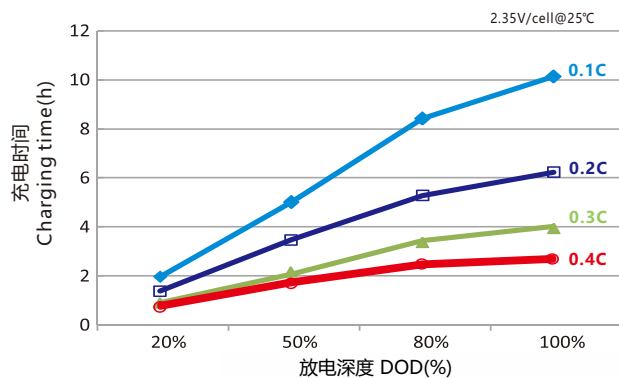
自放电曲线 Self-discharge vs Time



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