



# TNC2-500 (2V500Ah)



**Pb-C技术**  
Lead Carbon  
technology

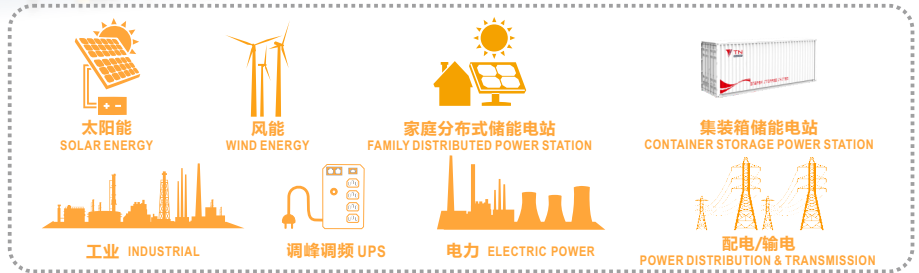
**AGM技术**  
AGM  
separator

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

**PSoC技术**  
PSoC  
technology

**70%放电循环**  
70%DOD  
≥4200cycles

## 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
2V	500Ah@25°C (77°F, 1.80V/cell)	0.6mΩ@25°C(77°F)	4000A(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
ABS UL94-HB (阻燃 ABS UL94-V0)	I7	长 Length	宽 Width	高 Height	总高 TH	41.0kg 90.4(lbs)
		166±1mm (6.54 inch.)	206±1mm (8.11 inch.)	471±2mm (18.5 inch.)	506±2mm (19.9 inch.)	

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

终止电压/时间 E.V / Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h	72h	100h	120h
1.85V/cell	455	376	302	251	156	119	97.9	83.8	73.9	59.3	49.1	26.3	8.19	6.26	5.32
1.80V/cell	505	403	317	263	163	125	101	86.2	75.7	60.8	50.0	26.8	8.33	6.38	5.42
1.75V/cell	545	427	334	275	169	129	104	88.6	77.3	61.9	50.9	27.2	8.47	6.48	5.51
1.70V/cell	/	447	346	284	176	134	107	90.5	79.3	63.0	51.8	27.6	8.60	6.58	5.61
1.67V/cell	/	470	361	294	182	136	110	92.8	80.8	64.3	52.5	28.1	8.73	6.68	5.68
1.60V/cell	/	486	371	301	185	138	112	95.0	82.3	65.0	53.2	28.4	8.84	6.76	5.76

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

终止电压/时间 E.V / Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h	72h	100h	120h
1.85V/cell	868	726	589	491	307	236	195	167	148	119	98.7	53.7	16.7	12.8	10.9
1.80V/cell	954	770	614	511	319	246	200	171	151	121	100	54.5	17.0	13.0	11.0
1.75V/cell	1017	809	642	533	330	254	205	175	153	123	102	55.3	17.2	13.2	11.2
1.70V/cell	/	842	661	547	342	261	210	178	157	125	104	56.1	17.5	13.4	11.4
1.67V/cell	/	878	686	564	352	265	215	182	159	128	105	56.9	17.7	13.6	11.5
1.60V/cell	/	900	699	574	356	268	219	186	162	129	106	57.4	17.9	13.7	11.7

ISO9001

ISO14001

OHSAS18001

IEC

ROHS



Tianneng Battery Group Co., Ltd.

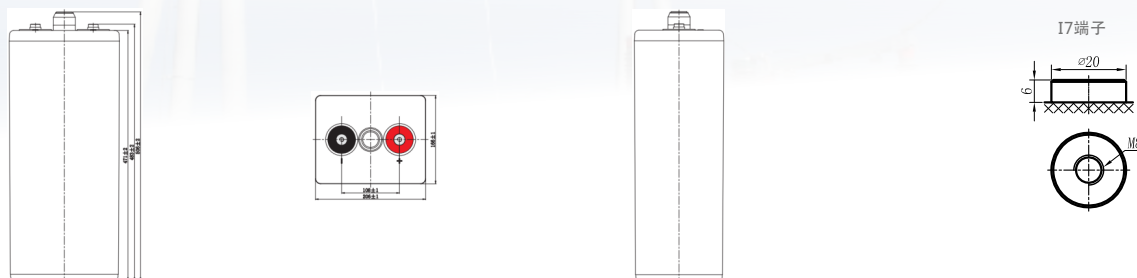
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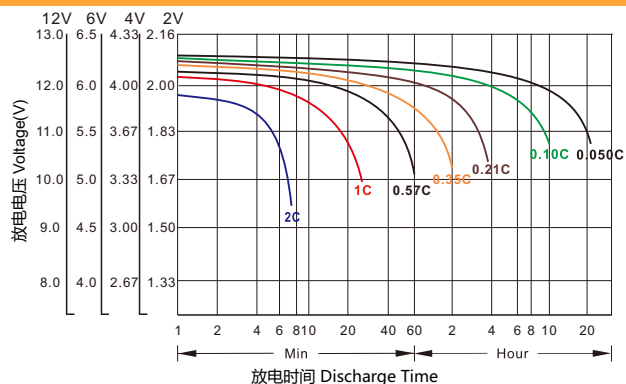
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## 外形尺寸 Battery Dimensions(mm)

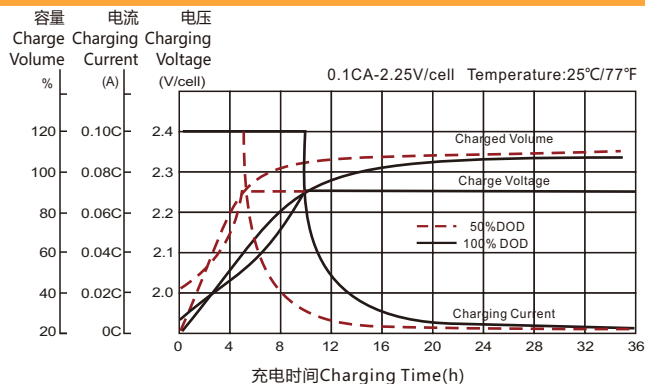


## 电性能 Electrical Characteristics

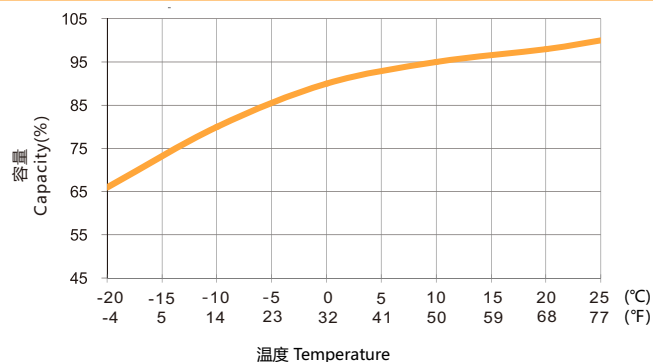
### 不同倍率放电特性 Discharge Characteristics(25°C/77°F)



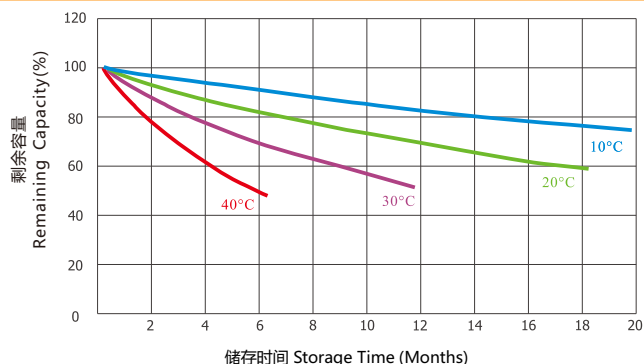
### 充电特性曲线 Charging Characteristics



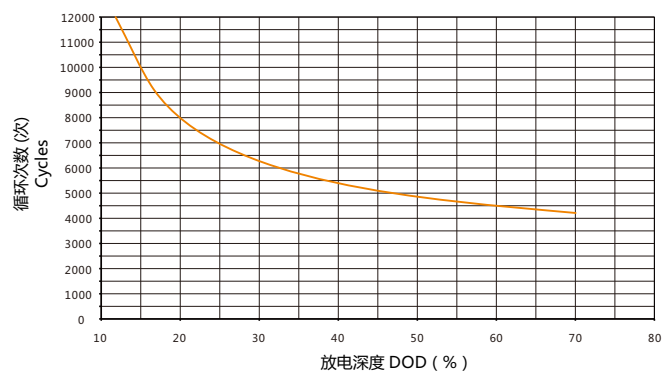
### 电池容量曲线 Capacity vs Temperature



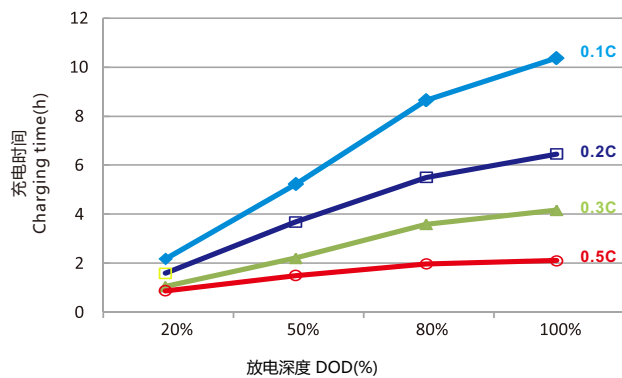
### 自放电曲线 Self-discharge vs Time



### 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:  $\leq 0.3C_{10}A$   
Limited current:  $\leq 0.3C_{10}A$

### 快速充电 Fast Charge

恒压 Constant voltage: 2.30~2.40V@25°C(77°F)  
温度补偿系数 Temp.Coefficient: -4mV/°C

### 浮充电 Float Charge

恒压 Constant voltage: 2.20~2.30V@25°C(77°F)  
温度补偿系数 Temp.Coefficient: -3mV/°C