



# TNC12-120P (12V120Ah)

<b>Pb-C技术</b> Lead Carbon technology	<b>AGM技术</b> AGM separator	<b>多元稀土合金</b> Multi-element patent rare earth alloy	<b>HRPSoC技术</b> HRPSoC technology	<b>15%放电循环</b> 15%DOD ≥10000cycles
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## 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	120Ah/1.44kWh (25°C/77°F, 1.80V/cell)	5.0mΩ@25°C(77°F)	1440A(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)	I7	480±2mm (18.9 inch.)	170±2mm (6.69 inch.)	240±2mm (9.45 inch.)	240±2mm (9.45 inch.)	41.0kg 90.41(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	217.2	152.6	130.9	116.7	97.0	78.3	65.1	39.2	28.6	23.4	20.1	17.7	14.3	11.8	6.28
1.80V/cell	262.8	177.1	146.2	129.6	104.0	82.3	68.0	41.0	29.9	24.2	20.7	18.1	14.6	12.0	6.35
1.75V/cell	300.8	200.0	162.1	139.8	110.0	86.6	71.3	42.6	31.0	24.8	21.1	18.6	14.9	12.2	6.44
1.70V/cell	334.2	216.0	173.8	149.5	115.4	89.7	73.6	44.3	32.0	25.6	21.6	19.0	15.2	12.4	6.50
1.67V/cell	370.7	230.5	181.0	157.2	121.3	93.5	76.2	45.7	32.9	26.3	22.2	19.4	15.4	12.6	6.58
1.60V/cell	392.0	241.9	190.2	162.9	125.3	96.1	78.0	46.6	33.6	26.9	22.8	19.7	15.6	12.8	6.66

## 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	405.7	288.4	249.6	224.5	188.7	153.8	128.3	77.8	57.1	46.8	40.4	35.5	28.8	23.9	12.9
1.80V/cell	484.6	330.4	275.5	246.8	200.3	160.3	133.5	80.9	59.5	48.2	41.3	36.3	29.4	24.2	13.0
1.75V/cell	543.7	367.2	301.3	263.2	210.2	167.6	139.1	83.8	61.4	49.3	42.1	37.1	29.9	24.6	13.2
1.70V/cell	590.9	390.5	319.1	279.2	218.7	172.6	142.9	86.8	63.2	50.6	43.0	37.8	30.4	25.0	13.3
1.67V/cell	643.7	410.1	328.9	290.8	228.3	179.1	147.4	89.3	64.6	51.8	43.9	38.5	30.8	25.3	13.4
1.60V/cell	667.4	423.4	340.4	298.1	233.9	182.5	149.8	90.3	65.5	52.8	44.9	39.1	31.2	25.6	13.6

ISO9001

ISO14001

OHSAS18001

IEC

ROHS

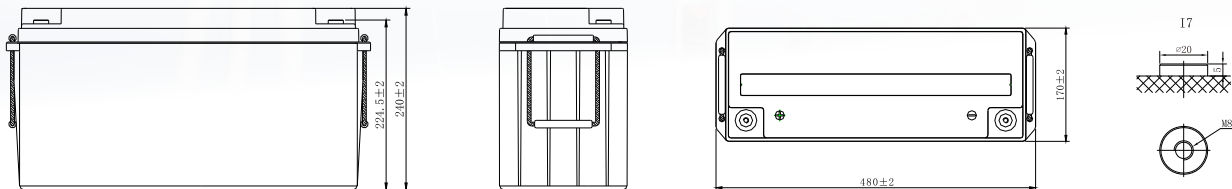


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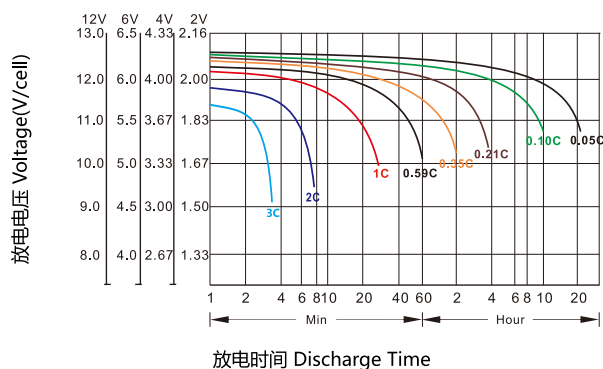
Http://www.tiannenggroup.com

## 外形尺寸 Battery Dimensions(mm)

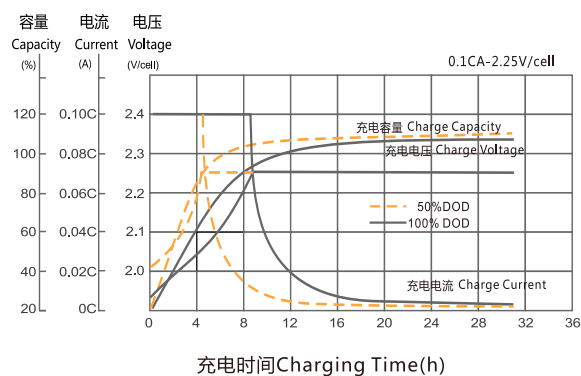


## 电性能 Electrical Characteristics

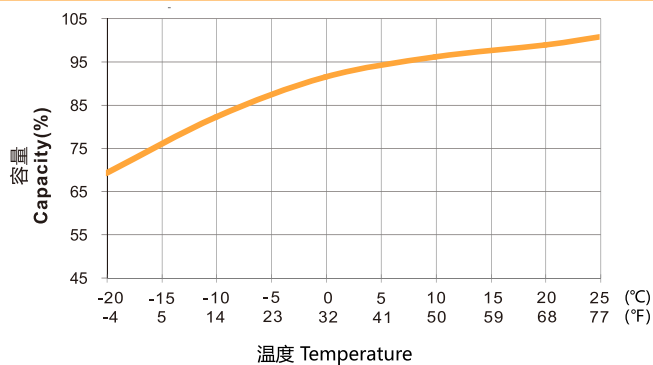
### 不同倍率放电特性 Discharge Characteristics(25°C/77°F)



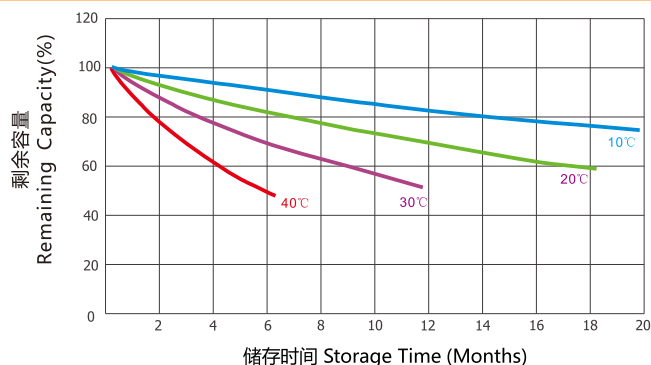
### 充电特性曲线 Charging Characteristics



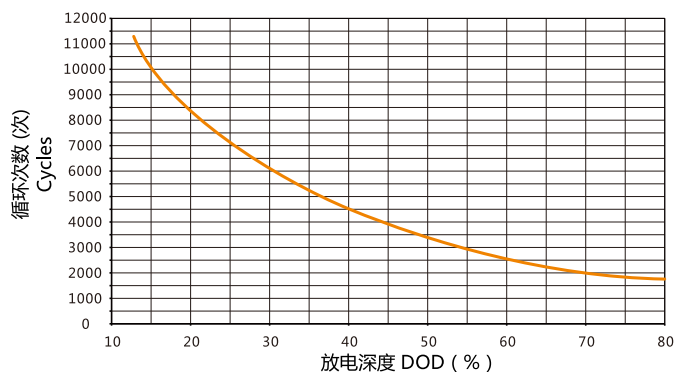
### 电池容量曲线 Capacity vs Temperature



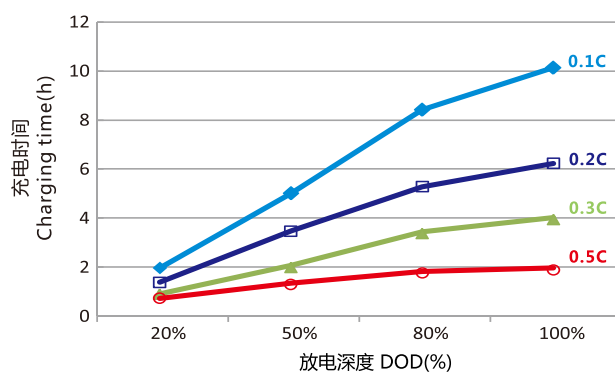
### 自放电曲线 Self-discharge vs Time



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

#### 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