



天能电池
TIANNENG BATTERY

6-EVF-52 (12V52Ah)

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



电动摩托车
Electric Motorcycle



电动车
Electric Bicycle



电动三轮车
Electro-tricycle



童车
Kid Electric Bike



高尔夫球包车
Golf Trolley



代步车
Scooter

产品特性 Product Specifications

额定电压 Nominal Voltage	额定容量 Rated Capacity(3hr)	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	52Ah@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
ABS UL94-HB (阻燃 ABS UL94-V0)	长 Length	宽 Width	高 Height	总高 TH	14.8kg (32.6lbs)
	224±3mm (8.82 inch.)	135±2mm (5.31 inch.)	178±2mm (7.01 inch.)	178±2mm (7.01 inch.)	

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	189.1	135.6	108.9	90.2	67.6	55.3	40.3	23.1	16.7	12.9	10.5	8.76	6.64	5.36	2.81
1.80V/cell	204.2	147.1	113.6	92.8	69.2	56.3	41.1	23.4	16.9	13.1	10.6	8.86	6.72	5.44	2.87
1.75V/cell	215.9	152.3	117.5	95.2	70.7	57.4	41.7	23.7	17.1	13.2	10.6	8.91	6.75	5.47	2.87
1.70V/cell	222.1	156.2	119.8	97.3	71.9	58.2	42.3	24.0	17.2	13.2	10.7	8.96	6.79	5.49	2.89
1.67V/cell	226.2	159.5	122.2	99.5	73.3	59.1	42.8	24.1	17.3	13.3	10.7	8.98	6.80	5.50	2.89
1.60V/cell	232.1	162.3	125.0	101.7	75.1	60.1	43.2	24.5	17.4	13.3	10.7	9.00	6.82	5.51	2.89

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	352.1	257.0	208.7	174.7	133.1	109.6	80.3	46.1	33.4	25.9	20.9	17.5	13.3	10.7	5.62
1.80V/cell	375.2	278.0	217.6	179.5	136.3	111.7	81.7	46.8	33.9	26.1	21.1	17.7	13.5	10.9	5.73
1.75V/cell	387.3	287.1	224.7	183.8	139.0	113.7	82.9	47.3	34.2	26.3	21.2	17.8	13.5	10.9	5.75
1.70V/cell	389.4	293.5	229.0	187.8	141.4	115.3	84.0	47.8	34.4	26.4	21.3	17.9	13.6	11.0	5.77
1.67V/cell	389.9	299.1	233.4	192.0	143.8	116.9	84.9	48.0	34.6	26.5	21.4	17.9	13.6	11.0	5.77
1.60V/cell	395.3	303.2	238.3	196.0	147.2	118.5	85.6	48.7	34.7	26.5	21.4	17.9	13.6	11.0	5.76

ISO9001

ISO14001

OHSAS18001

IEC

ROHS

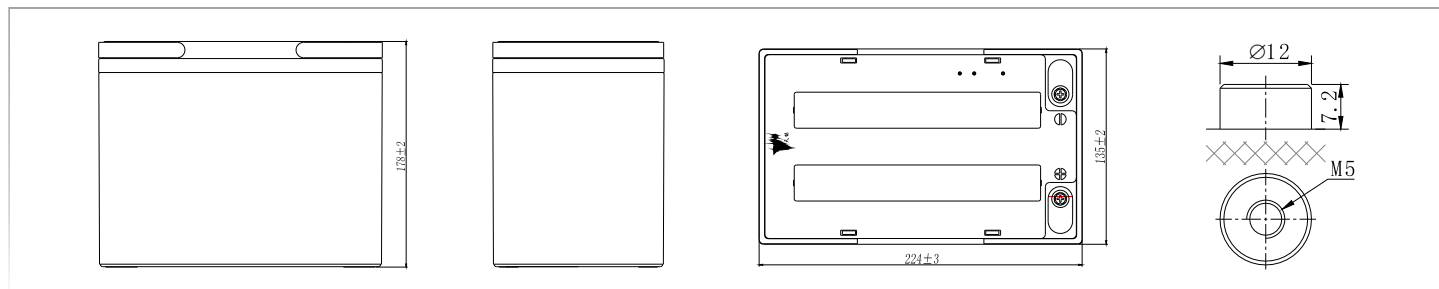


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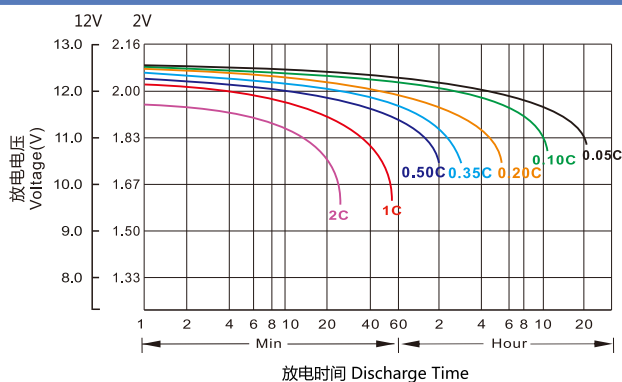
Http://www.tiannenggroup.com

外形尺寸 Battery Dimensions(mm)

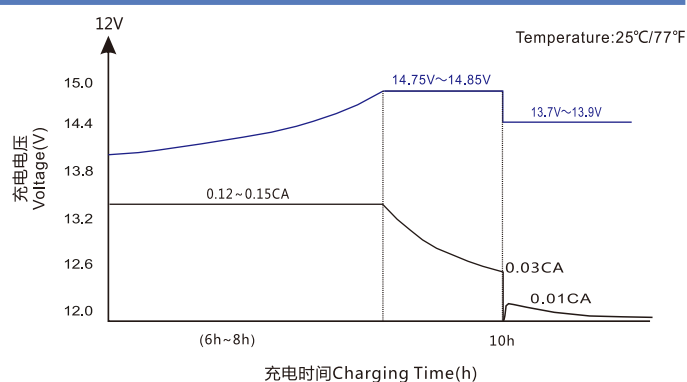


电性能 Electrical Characteristics

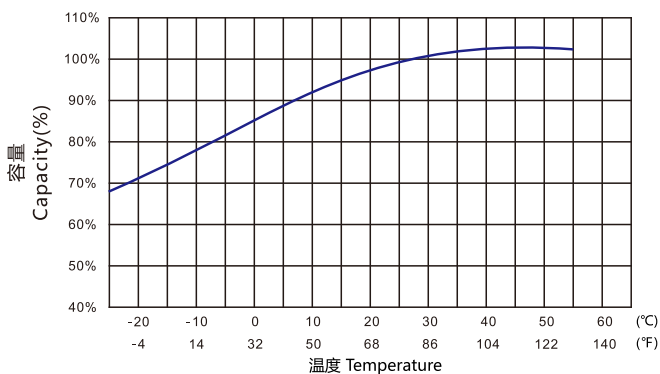
不同倍率放电特性 Discharge Characteristics(25°C/77°F)



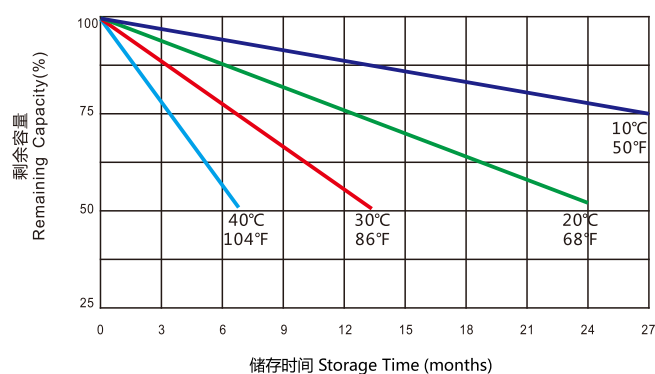
充电特性曲线 Charging Characteristics



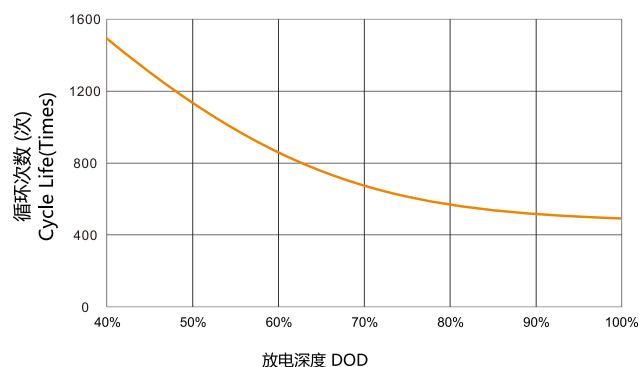
电池容量曲线 Capacity vs Temperature



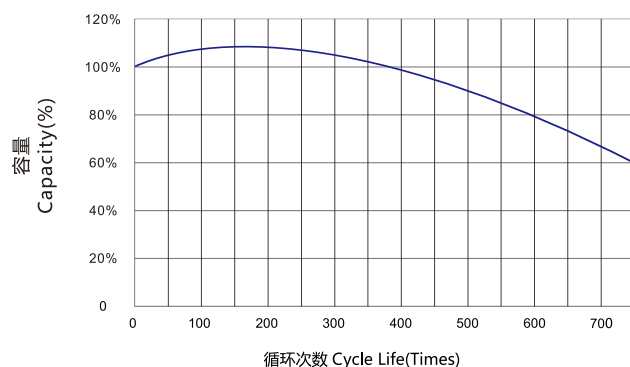
自放电曲线 Self-discharge vs Time



循环次数与放电深度 Cycle Life vs 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