



天能电池
TIANNENG BATTERY

6-EVF-45 (12V45Ah)

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	45Ah@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)	224±3mm (8.82 inch.)	120±2mm (4.72 inch.)	175±2mm (6.89 inch.)	175±2mm (6.89 inch.)	13.15kg (29.0lbs)

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	163.7	117.4	94.2	78.1	58.5	47.9	34.9	20.0	14.5	11.2	9.05	7.59	5.74	4.64	2.43
1.80V/cell	176.8	127.3	98.4	80.4	59.9	48.8	35.5	20.3	14.7	11.3	9.14	7.67	5.82	4.71	2.48
1.75V/cell	186.9	131.9	101.7	82.4	61.2	49.7	36.1	20.5	14.8	11.4	9.20	7.72	5.85	4.73	2.49
1.70V/cell	192.2	135.2	103.7	84.2	62.3	50.4	36.6	20.7	14.9	11.4	9.24	7.75	5.88	4.75	2.50
1.67V/cell	195.8	138.1	105.8	86.2	63.4	51.2	37.0	20.9	15.0	11.5	9.27	7.77	5.89	4.76	2.50
1.60V/cell	200.9	140.5	108.2	88.0	65.0	52.0	37.4	21.2	15.1	11.5	9.29	7.79	5.91	4.77	2.50

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	304.8	222.5	180.7	151.2	115.2	94.9	69.5	39.9	29.0	22.4	18.1	15.2	11.5	9.29	4.87
1.80V/cell	324.8	240.6	188.4	155.4	118.0	96.7	70.7	40.5	29.3	22.6	18.3	15.3	11.6	9.43	4.96
1.75V/cell	335.3	248.6	194.5	159.1	120.4	98.4	71.8	40.9	29.6	22.8	18.4	15.4	11.7	9.46	4.97
1.70V/cell	337.1	254.1	198.2	162.6	122.4	99.8	72.7	41.3	29.8	22.8	18.5	15.5	11.7	9.49	5.00
1.67V/cell	337.5	258.9	202.0	166.2	124.5	101.2	73.5	41.6	29.9	22.9	18.5	15.5	11.7	9.50	4.99
1.60V/cell	342.1	262.5	206.3	169.7	127.5	102.6	74.1	42.1	30.1	23.0	18.5	15.5	11.8	9.51	4.99

ISO9001

ISO14001

OHSAS18001

IEC

ROHS



MH61820

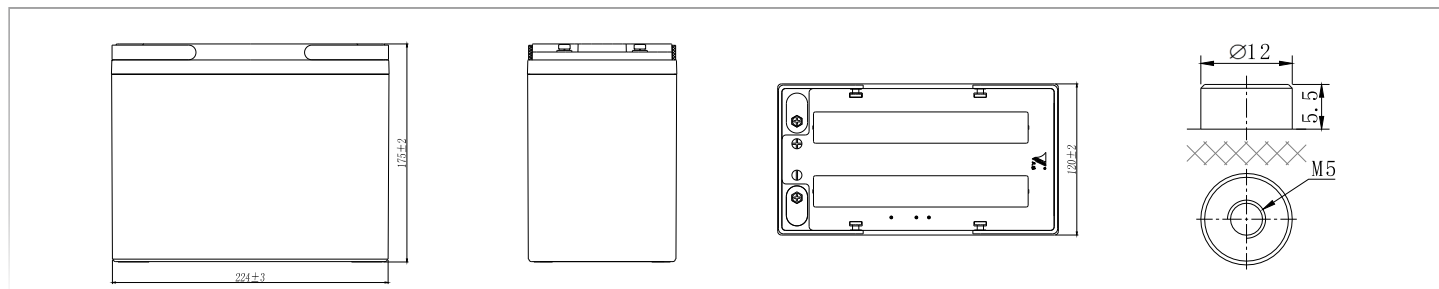


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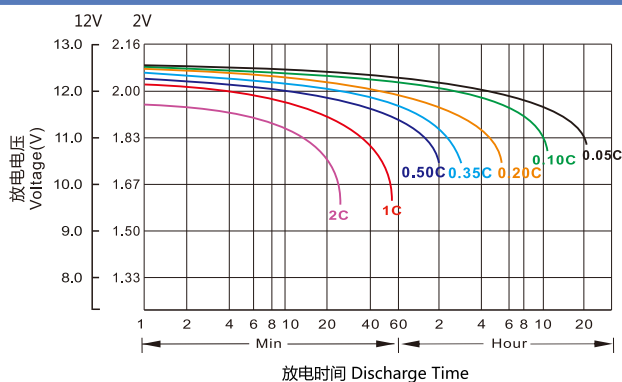
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外形尺寸 Battery Dimensions(mm)

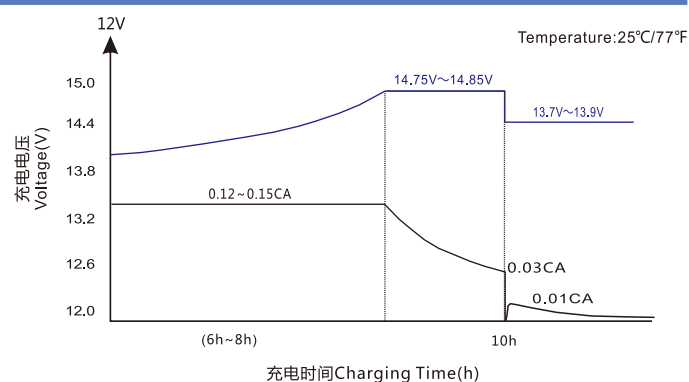


电性能 Electrical Characteristics

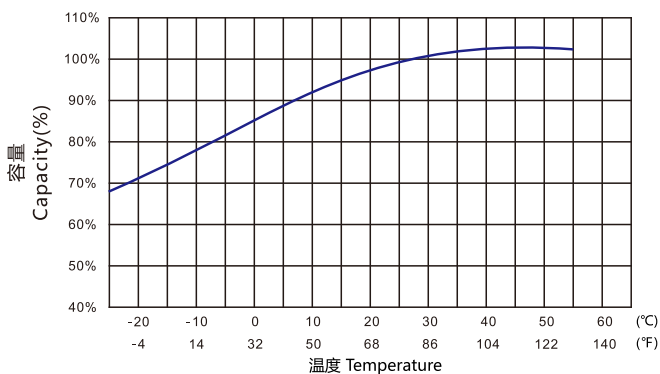
不同倍率放电特性 Discharge Characteristics(25°C/77°F)



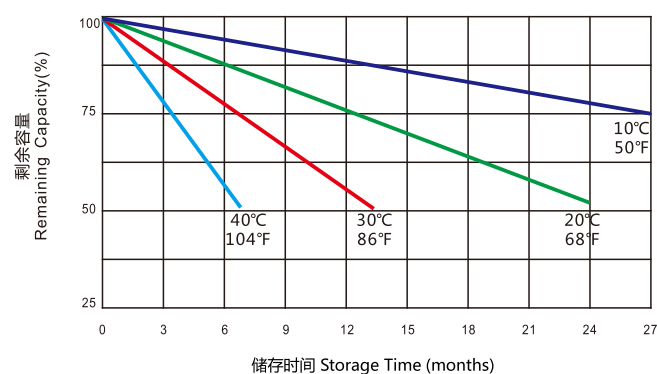
充电特性曲线 Charging Characteristics



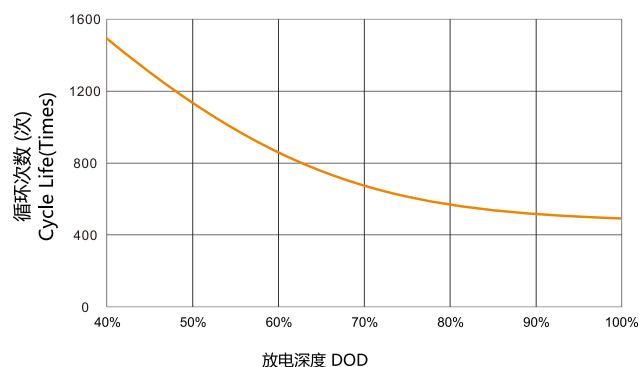
电池容量曲线 Capacity vs Temperature



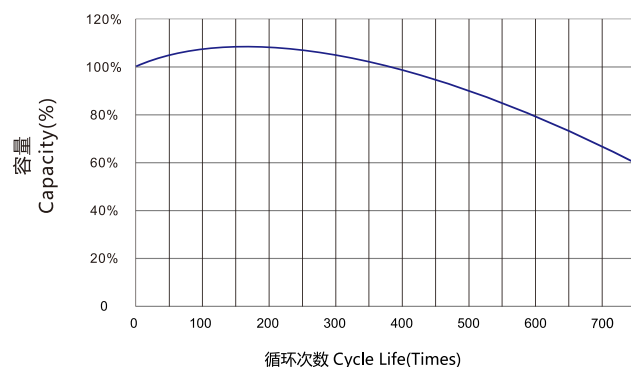
自放电曲线 Self-discharge vs Time



循环次数与放电深度 Cycle Life vs 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