

产品特点 PRODUCT FEATURES

- MF 系列电池，采用高倍率铅膏配方和高耐腐蚀的多元合金板栅，及特殊的排气结构和密封技术，具有高倍率放电能力，寿命长，使用安全可靠，极低的自放电率，安装灵活、维护便捷等特点。
- MF series battery lead paste formulations with high magnification and high corrosion resistant alloy multi-grid, and special exhaust structure and sealing technology, with high discharge capacity, long life, safe and reliable, very low self-discharge rate, flexible installation, maintenance, convenient features.



应用范围 APPLICATION

■ 适用于小型UPS、灯具、衡器、仪器设备、信号控制、消费类产品配套电源等

■ For small UPS, lamps, scales, equipment, signal control, power supply and other consumer products supporting

额定电压 Nominal Voltage
额定容量 Nominal Capacity (20 hour-rate to 1.80V/Cell)
尺寸 Dimension (Length*Width*Height)
参考重量 Approx Weight
参考内阻 Internal Resistance
运行温度范围 Operating Temperature Range
温度对容量的影响 Capacity affected by Temperature
浮充电压 Float Charging Voltage
循环使用充电电压 Cycle Use Charging Voltage
浮充温度补偿系数 Float Charging Temp. Coefficient
循环使用温度补偿系数 Cycle Use Charging Temp. Coefficient
最大充电电流 Max. Charging Current
最大持续放电电流 Max. Continuous Discharge Current
月自放电率 Month Self Discharge
标准端子 Terminal
外壳 Container Material

Temperature: 25°C
12V
18Ah
181.5*77*167.5mm
5.4Kg
16.2mΩ
Charging: 0 to 40°C
Discharge: -20 to 55°C
Storage: -15 to 50°C
40°C 105% 25°C 100% 0°C 86%
13.5 to 13.8V; Recom. 13.6V
14.4 to 15.0V; Recom. 14.7V
-18mV/°C
-30mV/°C
5.4A
81A
2% (20°C)
T3
ABS (UL94-HB)

恒流放电表 Constant Current Discharge (安培Amperes)

Temperature: 25°C

Time F.V.(V/Cell)	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85	45.2	31.2	24.7	20.2	15.2	11.2	9.51	7.11	5.69	4.26	3.37	2.81	2.42	1.92	1.57	0.85
1.80	52.7	36.8	28.7	23.2	17.1	12.6	10.5	7.78	6.19	4.61	3.64	3.03	2.59	2.05	1.67	0.90
1.75	57.5	39.4	30.3	24.4	17.9	13.1	10.9	8.04	6.38	4.73	3.73	3.10	2.65	2.09	1.70	0.91
1.70	62.2	42.0	32.1	25.6	18.7	13.6	11.3	8.32	6.59	4.87	3.82	3.17	2.70	2.13	1.73	0.92
1.67	65.0	43.6	33.1	26.4	19.2	13.9	11.6	8.47	6.70	4.95	3.87	3.21	2.74	2.15	1.74	0.93
1.60	71.6	47.2	35.5	28.1	20.3	14.6	12.1	8.84	6.98	5.13	4.00	3.30	2.81	2.20	1.78	0.95

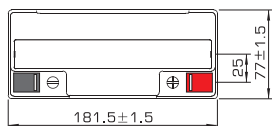
恒功率放电表 Constant Power Discharge (瓦Watts/单格Cell)

Temperature: 25°C

Time F.V.(V/Cell)	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85	86.1	59.7	47.4	38.8	29.3	21.8	18.5	13.9	11.1	8.36	6.63	5.53	4.76	3.79	3.10	1.70
1.80	99.1	69.7	54.6	44.3	32.9	24.2	20.3	15.1	12.0	9.00	7.12	5.94	5.10	4.05	3.31	1.79
1.75	107	73.8	57.2	46.1	34.1	25.0	20.9	15.5	12.3	9.20	7.27	6.06	5.19	4.11	3.35	1.81
1.70	114	77.8	59.8	48.0	35.2	25.7	21.6	15.9	12.7	9.43	7.43	6.18	5.29	4.18	3.40	1.83
1.67	118	80.1	61.7	49.0	35.9	26.2	21.9	16.2	12.8	9.55	7.51	6.24	5.34	4.21	3.43	1.84
1.60	129	85.7	64.7	51.5	37.5	27.2	22.7	16.7	13.3	9.84	7.72	6.40	5.47	4.30	3.49	1.87

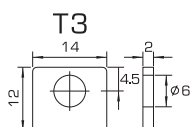
F.V.(V/Cell): 终止电压(V/单格)

尺寸 Dimensions (mm)



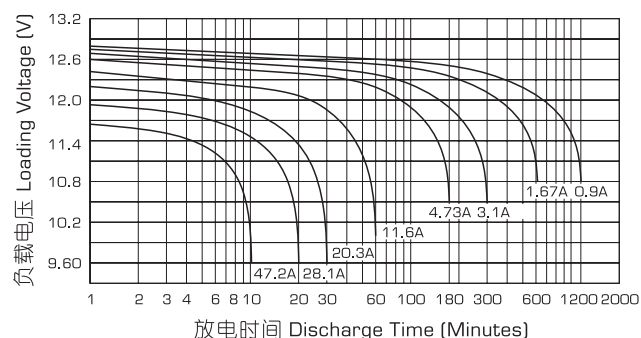
Terminal

扭矩: 3.1~4.2 N·m



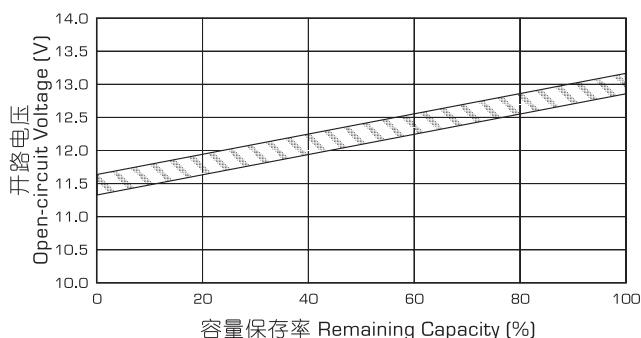
放电特性曲线

Discharge characteristics



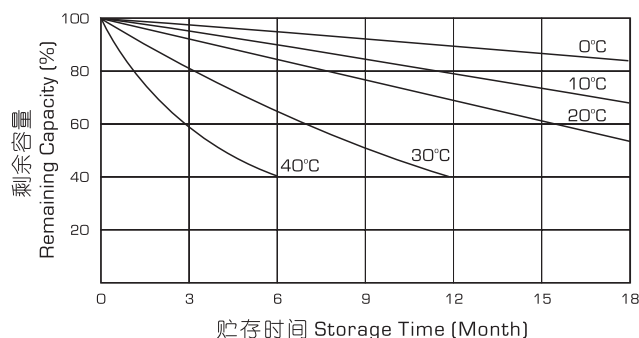
开路电压与容量关系

Open Voltage-remaining Capacity



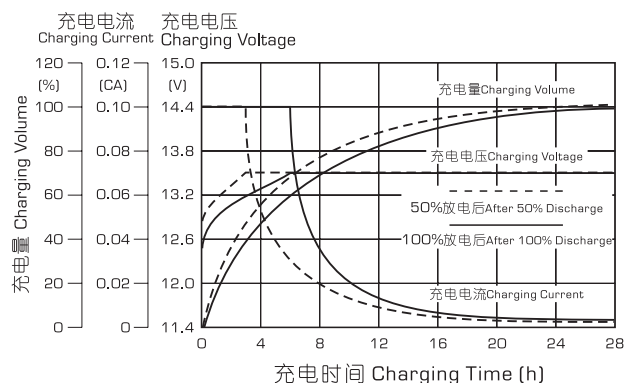
自放电特性曲线

Self discharging characteristics



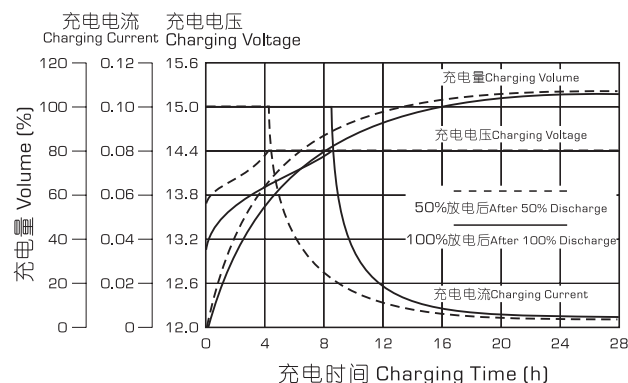
浮充使用充电特性

Float charging characteristics



循环使用充电特性

Cycle use charging characteristics



Battery storage temperature and charging time interval

Storage temp.	Supplementary charge interval	Charging methods
Less than 20°C	9 months	a) Using 2.25V / cell constant current limiting 0.1CA charge 2 to 3 days; b) with 2.35V / single cell constant current limiting 0.1CA charge 12 to 16 hours;
20 to 30°C	6 months	c) with the matching Smart charger to turn lights; Can choose one of three methods
30 to 40°C	3 months	

Cautions:

- ※ Do not use batteries for application other than those specified in its specification.
- ※ Do not attempt to disassemble, revised, damaged, impacted, disposed batteries, otherwise the battery would be leaked, heated, exploded.
- ※ Do not dispose of the batteries in water, fire, and do not heating the batteries.
- ※ Do not short batteries
- ※ If the voltage of battery back is above 45V, please be sure wear the insulated glove in working, otherwise, it may be get an electronic shock.
- ※ There are sulfuric acid in the battery, do not contact with sulfuric acid in skin, cloths, especially in eyes. If eyes contact with sulfuric acid, please wash with a lot of clean water, and consult a physician immediately.