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MF9 -12

MF SERIES

INVT Valve-Regulated Lead-Acid Batteries

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.

规格型号 SPECIFICATION

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	12V
额定容量 Nominal Capacity (3C>7min)	9.0Ah
尺寸 Dimension (Length*Width*Height)	151*65*99mm
参考重量 Approx Weight	2.5Kg
参考内阻 Internal Resistance	23mΩ
运行温度范围 Operating Temperature Range	Charging: 0 to 40°C Discharge: -20 to 55°C Storage: -15 to 50°C
温度对容量的影响 Capacity affected by Temperature	40°C 105% 25°C 100% 0°C 86%
浮充电压 Float Charging Voltage	13.7 to 13.8V; Recom. 13.7V
循环使用充电电压 Cycle Use Charging Voltage	14.6 to 14.8V; Recom. 14.7V
浮充温度补偿系数 Float Charging Temp. Coefficient	-18mV/°C
循环使用温度补偿系数 Cycle Use Charging Temp. Coefficient	-30mV/°C
最大充电电流 Max. Charging Current	2.7A
最大持续放电电流 Max. Continuous Discharge Current	40A
月自放电率 Month Self Discharge	2% (20°C)
标准端子 Terminal	T2 (250)
外壳 Container Material	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	20.1	13.9	11.0	8.96	6.74	5.00	4.23	3.16	2.53	1.89	1.50	1.25	1.07	0.85	0.70	0.379
1.80	23.4	16.3	12.8	10.3	7.62	5.59	4.68	3.46	2.75	2.05	1.62	1.35	1.15	0.91	0.74	0.400
1.75	25.5	17.5	13.5	10.8	7.96	5.81	4.85	3.58	2.84	2.10	1.66	1.38	1.18	0.93	0.76	0.405
1.70	27.7	18.7	14.3	11.4	8.32	6.03	5.03	3.70	2.93	2.17	1.70	1.41	1.20	0.95	0.77	0.410
1.67	28.9	19.4	14.7	11.7	8.53	6.17	5.14	3.76	2.98	2.20	1.72	1.42	1.22	0.95	0.77	0.413
1.60	31.8	21.0	15.8	12.5	9.01	6.49	5.39	3.93	3.10	2.28	1.78	1.47	1.25	0.98	0.79	0.421

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	38.3	26.5	21.1	17.3	13.0	9.69	8.22	6.16	4.95	3.71	2.95	2.46	2.12	1.68	1.38	0.75
1.80	44.0	31.0	24.3	19.7	14.6	10.8	9.03	6.71	5.35	4.00	3.16	2.64	2.27	1.80	1.47	0.79
1.75	47.4	32.8	25.4	20.5	15.1	11.1	9.30	6.89	5.49	4.09	3.23	2.69	2.31	1.83	1.49	0.80
1.70	50.7	34.6	26.6	21.3	15.7	11.4	9.58	7.08	5.63	4.19	3.30	2.75	2.35	1.86	1.51	0.81
1.67	52.5	35.6	27.4	21.8	16.0	11.6	9.73	7.18	5.71	4.24	3.34	2.77	2.37	1.87	1.52	0.82
1.60	57.2	38.1	28.7	22.9	16.7	12.1	10.1	7.44	5.90	4.37	3.43	2.85	2.43	1.91	1.55	0.83

F.V.(V/Cell): 终止电压(V/单格)

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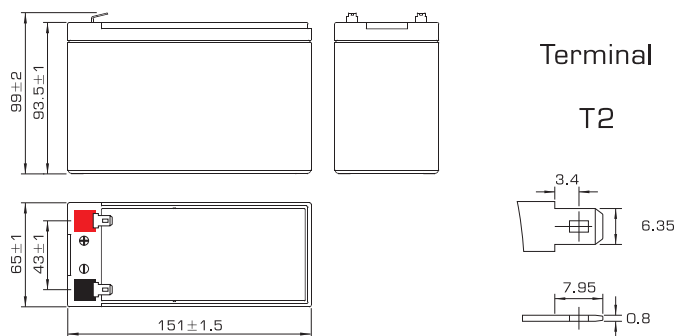
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INVT Valve-Regulated Lead-Acid Batteries

CHARACTERISTICS

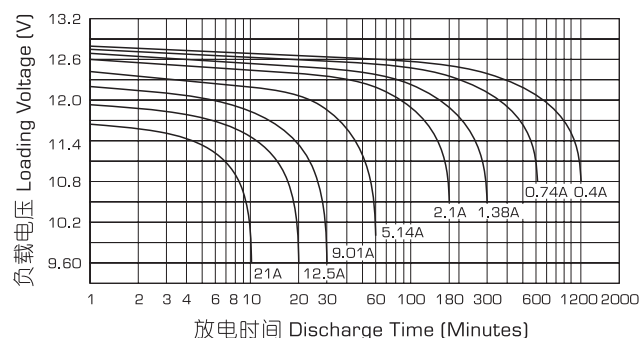
Temperature: 25°C

尺寸 Dimensions (mm)



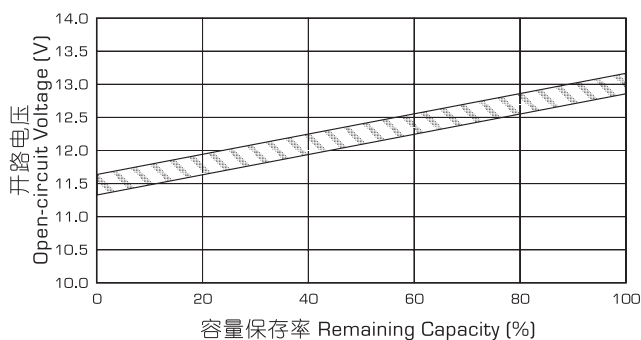
放电特性曲线

Discharge characteristics



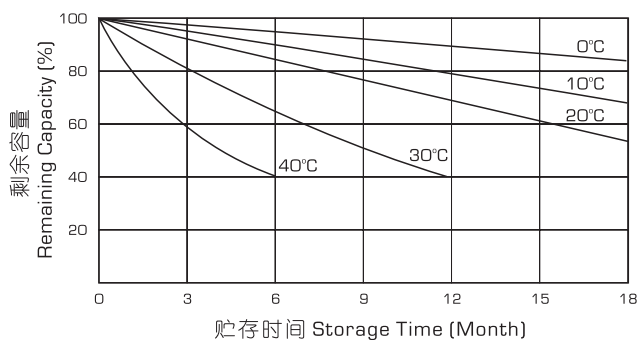
开路电压与容量关系

Open Voltage-remaining Capacity



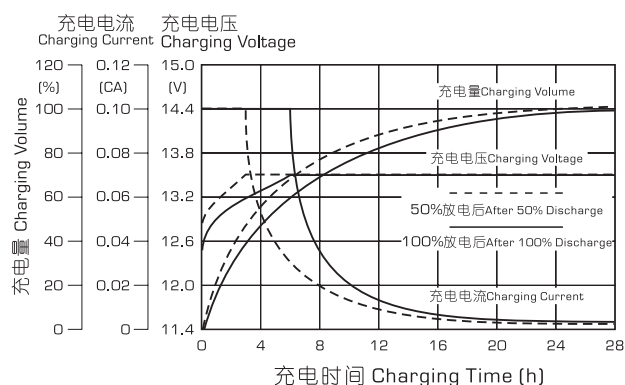
自放电特性曲线

Self discharging characteristics



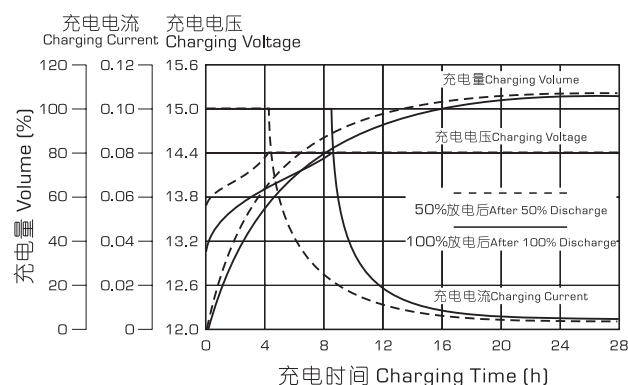
浮充使用充电特性

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.