

MHB MS Series--Small-size batteries

- 100% before shipment testing, stable and reliable long-term quality
- patented grid alloy formula and updated manufacturing technique
- completely sealed and maintenance-free, low self-discharge
- Excellent charging and re-charging acceptance
- Cycle use: More than 260 cycles at 100% DOD
- Floating & standby use: 3-5 years

Application:

- Alarm System
- Cable Television
- Communication Equipment
- Emergency Power System
- Security System
- Medical Equipment
- UPS
- Power tools
- Control Equipment
- Toys

Construction:

- ComponentRaw material
- PositiveLead dioxide
- NegativeLead
- ContainerABS
- CoverABS
- SealantEpoxy
- Safety valve Rubber
- TerminalCopper
- SeparatorFiber glass
- ElectrolyteSulfuric acid



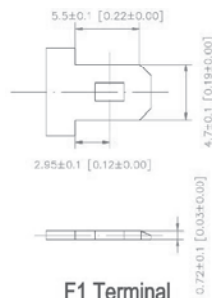
ISO:9001



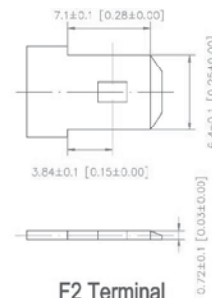
ISO:14001



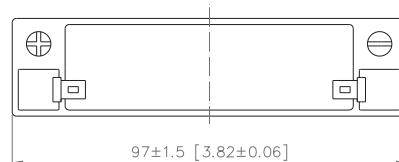
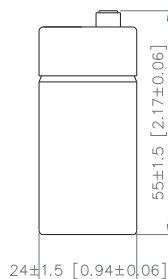
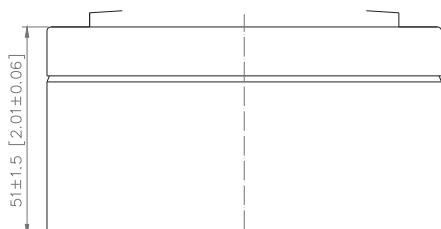
TB 09075935 MH 47104



F1 Terminal



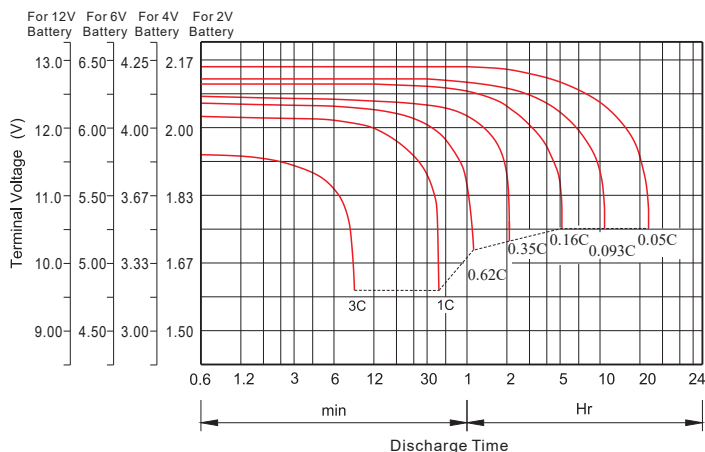
F2 Terminal



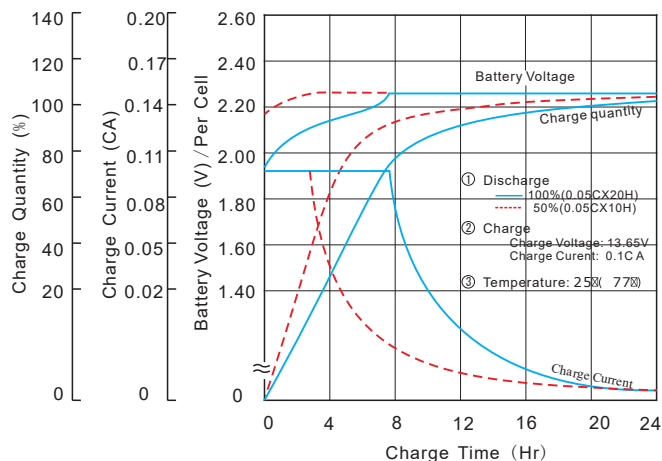
Specification:

Battery Model	MS 1.3 - 6 6V 1.3AH			
Designed Floating Life	3~5 Years			
Capacity@ (40°C)				
Dimensions	Length	Width	Height	Total Height
	97mm (3.82inch)	24mm (0.94inch)	51mm (2.01inch)	55mm (2.17inch)
Approx. Weight	0.29Kg (0.64 lbs) ± 1%			
Internal Resistance	Full charged at 25°C: ≤ 45m Ω			
Self Discharge	3% of capacity declined per month at (25°C)			
Capacity Affected by Temp.(20HR)	40°C	25°C	0°C	-15°C
	102%	100%	85%	65%
Charge Voltage(25°C)	Cycle use		Float use	
	14.4-15.0V(-30mV/°C), max. Current: 2.10A		13.6-13.8V (-20mV/°C)	

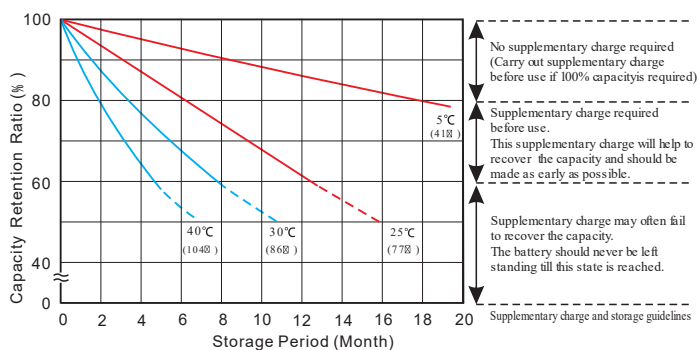
Discharge Characteristics @25°C



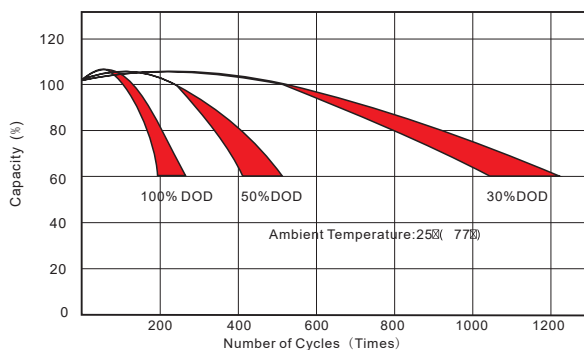
Charge Characteristics (Standby Use)



Capacity Retention Characteristics



Cycle Service life



Charge Procedure

Application	Constant Voltage Charge (V/cell)			Max. Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C (77°F)	2.425	2.40~2.45	0.3C
Standby Use	25°C (77°F)	2.275	2.25~2.30	

Note: Temp. Compensation Coefficient of Charge Voltage, Cycle use: -4mV/°C /cell, Standby Use: -3mV/°C /cell

Discharge Current VS. Discharge Voltage

Final Discharge Voltage (V/cell)	1.75	1.70	1.60	1.30
Discharge Current (A)	0.2C > (A)	0.2C < (A) < 0.5C	0.5C < (A) < 1C	(A) > 1C

Constant Current (CC, Unit: A) & Constant Power (CP, Unit: W) Discharge Table at 25°C (77°F)

F.V. (V/cell)	Model	Time											
		5 Min	10 Min	15 Min	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	8 Hr	10 Hr	20 Hr
1.60V	CC(A)	4.68	3.07	2.28	1.50	0.78	0.46	0.33	0.27	0.23	0.15	0.12	0.07
	CP(W)	27.60	17.33	13.11	7.94	4.50	2.63	1.94	1.55	1.32	0.87	0.71	0.39
1.70V	CC(A)	4.29	2.94	2.09	1.42	0.73	0.44	0.33	0.26	0.22	0.15	0.12	0.07
	CP(W)	25.97	16.41	12.32	7.88	4.23	2.53	1.88	1.51	1.29	0.86	0.70	0.38
1.75V	CC(A)	3.91	2.74	1.95	1.38	0.71	0.43	0.32	0.25	0.22	0.15	0.12	0.07
	CP(W)	25.08	15.93	11.78	7.80	4.10	2.48	1.85	1.43	1.29	0.85	0.69	0.38
1.80V	CC(A)	3.75	2.62	1.82	1.34	0.68	0.42	0.31	0.24	0.21	0.14	0.12	0.06
	CP(W)	21.99	15.44	11.35	7.77	3.98	2.43	1.83	1.41	1.23	0.81	0.68	0.37
1.85V	CC(A)	3.47	2.47	1.69	1.30	0.66	0.41	0.30	0.24	0.20	0.14	0.11	0.06
	CP(W)	21.26	14.92	10.81	7.72	3.93	2.41	1.77	1.41	1.20	0.79	0.66	0.37

Note: The above data are average values, and can be obtained with 3 charge/discharge cycles.