

MHB MM Series—Medium-size Battery

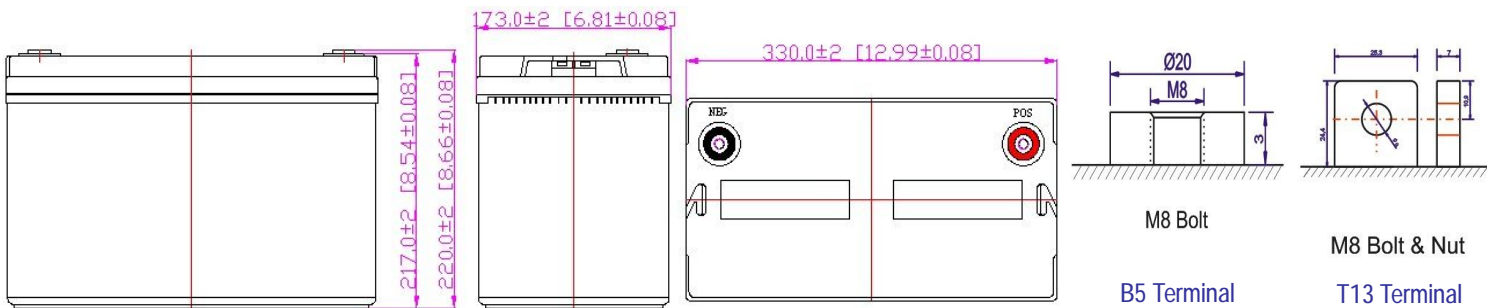
- High performance, completely maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating & standby use: up to 8 years
- Cycle use 1: Up to 260 cycles at 100% DOD
- Cycle use 2: Up to 500 cycles at 50% DOD

Application:

- Telecommunications
- Alarm and security system
- Uninterruptable Power Supply (UPS)
- Communication power supply
- Electric Power System (EPS)
- DC power supply
- Emergency backup power supply
- Auto control system

Construction:

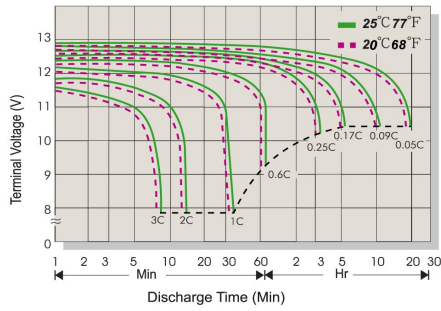
- ComponentRaw material
- SealantEpoxy
- PositiveLead dioxide
- Safety valve Rubber
- NegativeLead
- TerminalCopper/Pb
- ContainerABS
- SeparatorFiber glass
- CoverABS
- Electrolyte Sulfuric acid



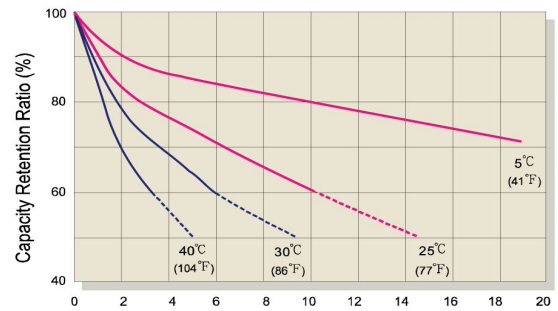
Speification:

Battery Model	MM 100-12 12V100AH			
Designed Floating Life	Up to 8 Years			
Capacity (25°C)	20HR(5.240A,10.8V)	10HR(10.00A,10.8V)	5HR(17.530A,10.5V)	1HR(54.200A,10.5V)
	104.80 AH	100.00 AH	87.65 AH	54.20 AH
Dimensions	Length	Width	Height	Total Height
	330 mm	173 mm	217 mm	220 mm
Approx. Weight	28.50 KG±3%			
Internal Resistance	Full charged at 25°C: ≤7.00 mΩ			
Self Discharge	2% 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	
	14.4-14.6V(-30mV/°C), max. Current:25.00A		13.5-13.8V (-20mV/°C)	

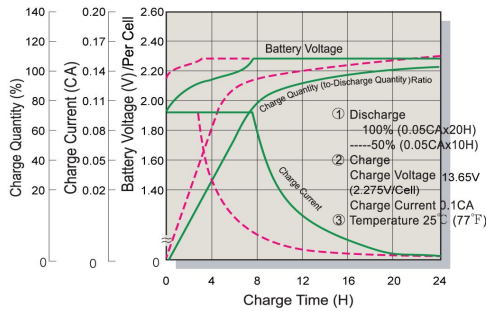
Terminal Voltage (V) and Discharge Time



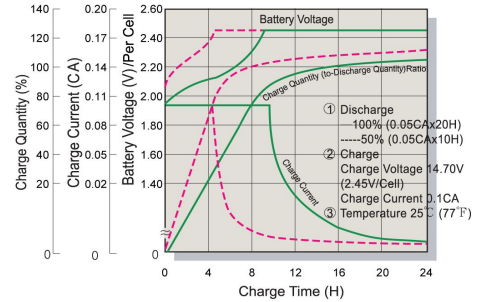
Capacity Retention Characteristic



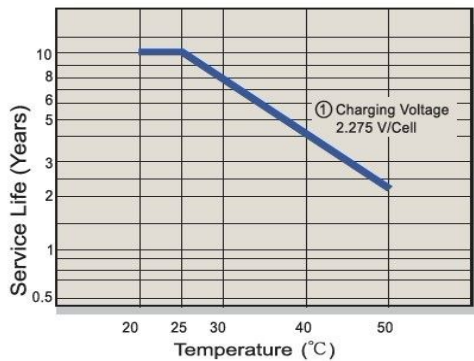
Battery Voltage and Charge Time for Standby Use



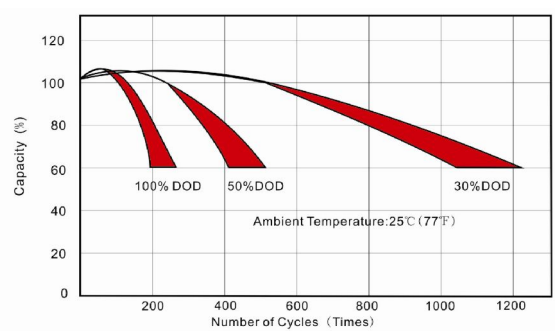
Battery Voltage and Charge Time for Cycle Use



Tickle(or Float) Service Life



Cycle Service Life



Constant Current Discharge (CC, Unit: A) at 25°C (77°F)

F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.80V/Cell	309.7	210.7	144.2	87.72	53.75	33.54	26.08	20.51	17.39	11.62	10.00	5.24
1.75V/Cell	312.3	212.5	145.5	88.46	54.20	33.83	26.30	20.68	17.53	11.71	10.15	5.31
1.70V/Cell	320.1	217.8	149.1	90.68	55.56	34.67	26.96	21.20	17.97	12.01	10.30	5.39
1.67V/Cell	327.9	223.1	152.7	92.89	56.91	35.52	27.61	21.72	18.41	12.30	10.45	5.47
1.60V/Cell	342.5	233.0	159.5	97.02	59.45	37.10	28.84	22.69	19.23	12.85	10.60	5.55

Constant Power Discharge (CP, Unit: W) at 25°C (77°F)

F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.80V/Cell	603.9	410.8	281.3	171.1	104.8	65.41	50.85	40.00	33.90	22.65	19.50	10.21
1.75V/Cell	609.0	414.3	283.7	172.5	105.7	65.96	51.28	40.34	34.19	22.84	19.79	10.36
1.70V/Cell	624.2	424.7	290.8	176.8	108.3	67.61	52.57	41.34	35.04	23.41	20.09	10.52
1.67V/Cell	639.4	435.0	297.8	181.1	111.0	69.26	53.85	42.35	35.90	23.98	20.38	10.67
1.60V/Cell	667.9	454.4	311.1	189.2	115.9	72.35	56.25	44.24	37.50	25.05	20.67	10.82