

Medium-size Battery

MM Series

Medium-size Battery

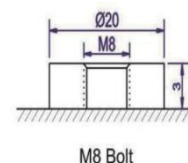
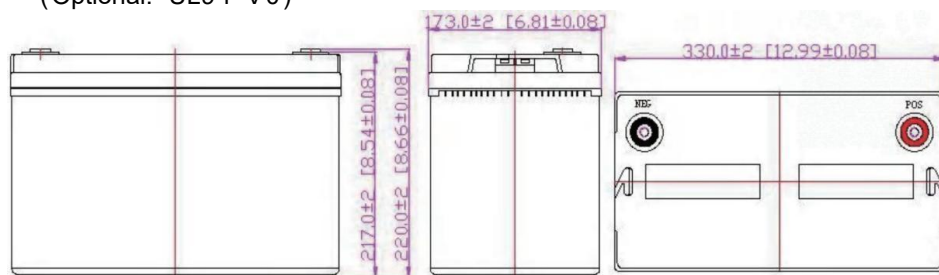
- High performance, completely maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating & standby use: 10 to 12 years (Design life is based on ideal conditions; actual battery lifespan may vary with usage, maintenance, and environment.)
- Cycle use 1: Up to 260 cycles at 100% DOD
- Cycle use 2: Up to 500 cycles at 50% DOD

Application:

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

Construction:

- ComponentRaw material
- PositiveLead dioxide
- NegativeLead
- ContainerUL94-HB
- (Optional: UL94-V0)
- CoverUL94-HB
- (Optional: UL94-V0)
- SealantEpoxy
- Safety valve Rubber
- TerminalCopper/Pb
- Separator...Fiber glass
- ElectrolyteSulfuric acid

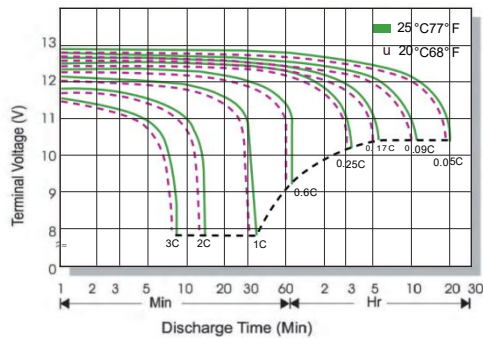


B5 Terminal

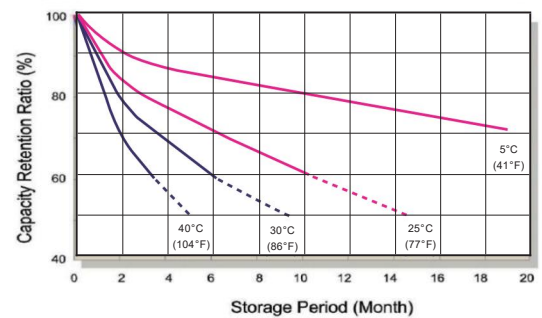
Specification:

Battery Model	MM 100-12 12V100AH			
Designed Floating Life	10 to 12 years			
Capacity (25°C)	20HR(5.380A,10.8V)	10HR(10.00A,10.8V)	5HR(16.200A,10.5V)	1HR(55.700A,10.5V)
	107.60AH	100.00 AH	81.00 AH	55.70AH
Dimensions	Length	Width	Height	Total Height
	330 mm	173 mm	217 mm	220 mm
Approx. Weight	29.50 KG±3%			
Internal Resistance	Full charged at 25°C: ≤6.0 mΩ			
Self Discharge	2% of capacity declined per month at (25°C)			
max discharge current	352A			
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)	

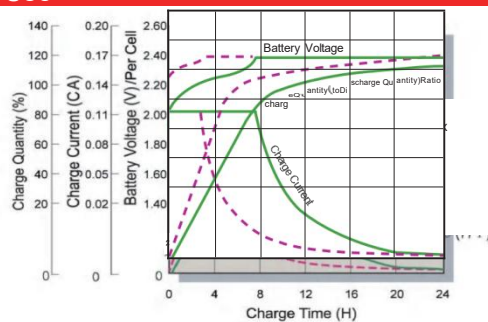
Terminal Voltage (V) and Discharge Time



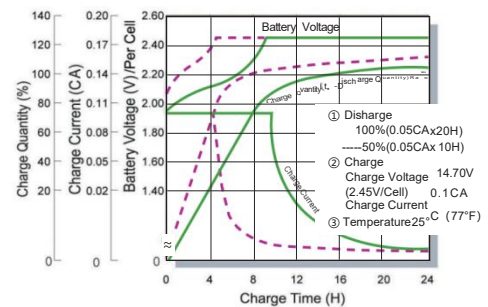
Capacity Retention Characteristic



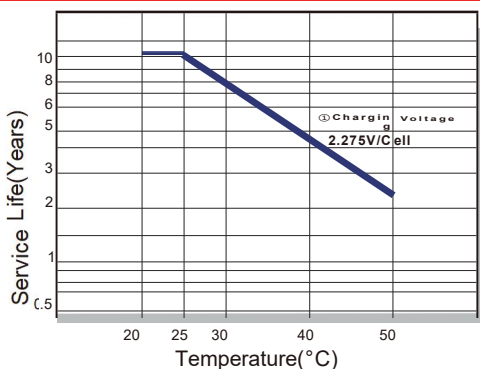
Battery Voltage and Charge Time for Standby Use



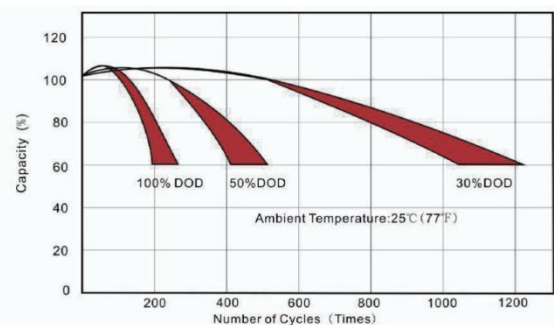
Battery Voltage and Charge Time for Cycle Use



Float(or Standby) 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	254.4	181.7	148.1	90.1	55.2	34.45	24.10	21.06	16.07	14.44	10.00	5.38
1.75V/Cell	256.6	183.3	149.4	90.8	55.7	34.74	24.31	21.24	16.20	14.56	10.15	5.46
1.70V/Cell	263.0	187.8	153.1	93.1	57.1	35.61	24.91	21.77	16.61	14.92	10.30	5.54
1.67V/Cell	269.4	192.4	156.8	95.4	58.4	36.47	25.52	22.30	17.01	15.28	10.45	5.62
1.60V/Cell	281.4	201.0	163.8	99.6	61.1	38.10	26.66	23.30	17.78	15.96	10.60	5.70

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	465.6	332.5	275.5	164.8	103.8	65.11	46.03	41.07	31.01	28.00	19.60	10.60
1.75V/Cell	469.5	335.4	277.9	166.2	104.6	65.66	46.43	41.42	31.27	28.24	19.89	10.76
1.70V/Cell	481.2	343.7	284.8	170.4	107.3	67.30	47.58	42.45	32.05	28.94	20.19	10.91
1.67V/Cell	492.9	352.2	291.6	174.5	109.9	68.93	48.75	43.49	32.83	29.65	20.48	11.07
1.60V/Cell	514.9	367.9	304.7	182.3	114.8	72.01	50.92	45.44	34.31	30.96	20.78	11.23