

MHB MNG Series-- Storage-type Gelled Battery

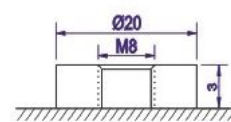
- completely sealed and maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula, Gelled electrolyte formula and updated manufacturing technique
- Floating & standby use: up to 12 years
- Cycle use 1: More than 350 cycles at 100% DOD
- Cycle use 2: More than 1800 cycles at 30% DOD

Application:

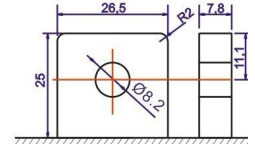
- Telecommunications
- UPS/EPS
- DC Power Supply
- Solar system
- Wind Power System
- Auto Control System

Construction:

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



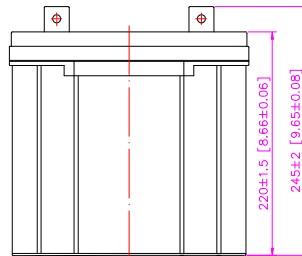
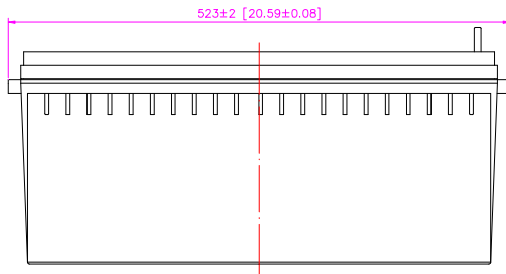
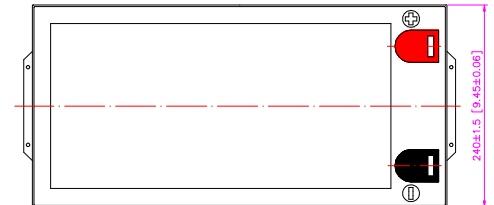
M8 Bolt



M8 Bolt & Nut

B5 Terminal

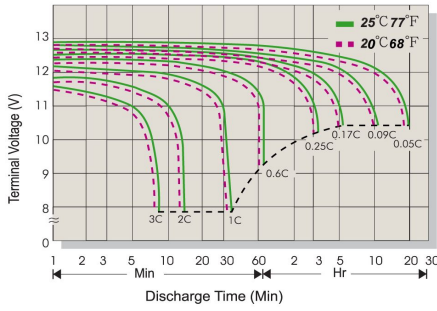
T16 Terminal



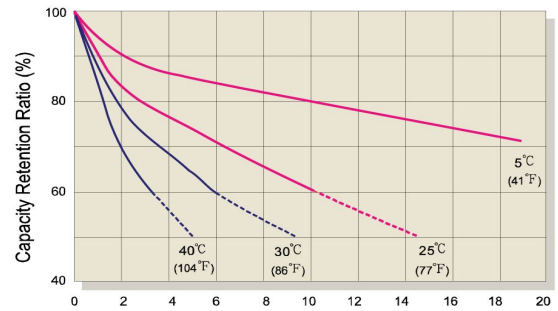
Specification:

Battery Model	MM 200-12 12V200AH			
Designed Floating Life	Up to 12 Years			
Capacity (25°C)	20HR(10.0A,10.8V)	10HR(18.7A,10.8V)	5HR(34.0A,10.5V)	1HR(115.8A,10.5V)
	200AH	187AH	170AH	115.8AH
Dimensions	Length	Width	Height	Total Height
	523mm (20.59inch)	240mm (9.45inch)	220mm (8.66inch)	245mm (9.64inch)
Approx. Weight	62.40 Kg (28.36 lbs)			
Internal Resistance	Full charged at 25°C: ≤4.0mΩ			
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	
	14.40-14.70 V(-30mV/°C), max. Current:60A		13.5 - 13.8V (-20mV/°C)	

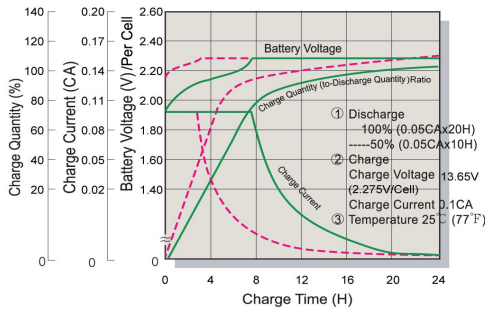
Terminal Voltage (V) and Discharge Time



Capacity Retention Characteristic



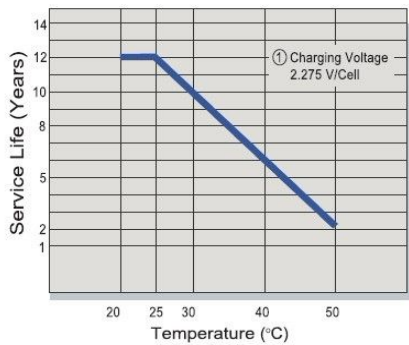
Battery Voltage and Charge Time for Standby Use



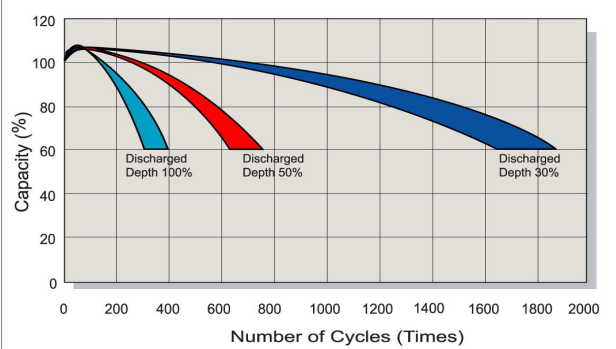
Battery Voltage and Charge Time for Cycle Use



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	8Hr	10Hr	20Hr
1.85V/Cell	555.5	418.3	300.9	181.2	108.9	63.6	48.4	38.5	32.0	21.7	17.5	9.4
1.80V/Cell	585.1	440.6	316.9	190.8	114.6	67.0	51.0	40.5	33.7	22.9	18.7	10.0
1.75V/Cell	591.0	445.0	320.1	192.7	115.8	67.7	51.5	40.9	34.0	23.1	18.8	10.1
1.70V/Cell	598.8	450.9	324.3	195.3	117.3	68.5	52.2	41.5	34.4	23.4	18.9	10.1
1.67V/Cell	602.8	453.9	326.5	196.6	118.1	69.0	52.5	41.7	34.7	23.6	19.0	10.2

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

F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	8Hr	10Hr	20Hr
1.85V/Cell	1055.5	794.8	571.7	344.2	206.8	120.8	92.0	73.1	60.7	41.3	33.3	17.9
1.80V/Cell	1111.7	837.0	602.1	362.5	217.8	127.3	96.9	77.0	63.9	43.5	35.1	18.8
1.75V/Cell	1122.9	845.5	608.2	366.2	220.0	128.5	97.8	77.8	64.6	43.9	35.4	19.0
1.70V/Cell	1137.7	856.7	616.2	371.0	222.9	130.2	99.1	78.8	65.4	44.5	35.9	19.3
1.67V/Cell	1145.2	862.3	620.3	373.5	224.4	131.1	99.8	79.3	65.9	44.8	36.1	19.4