

MHB MNG Series-- Storage-type Gelled Battery

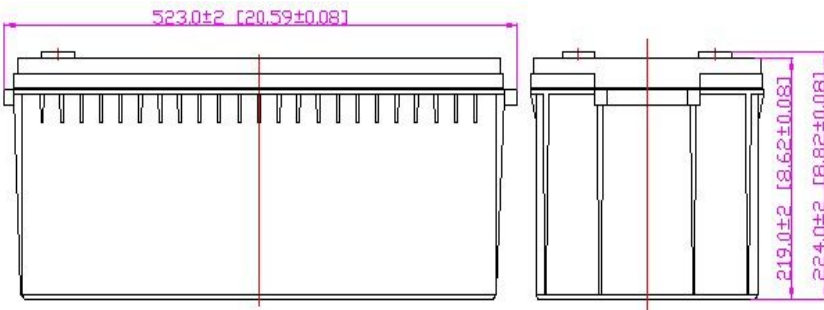
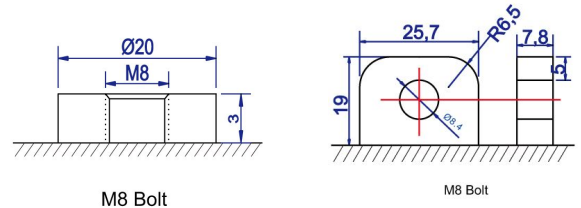
- completely sealed and maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula, Gelled electrolyte formula and updated manufacturing technique
- Floating & standby use: up to 12 years
- Cycle use 1: More than 350 cycles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

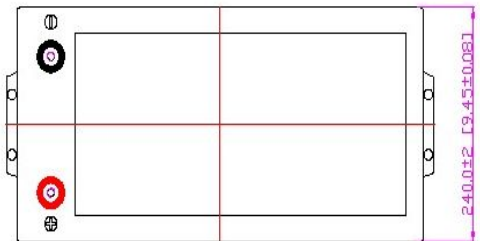
Construction:

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



B5 Terminal

T19 Terminal

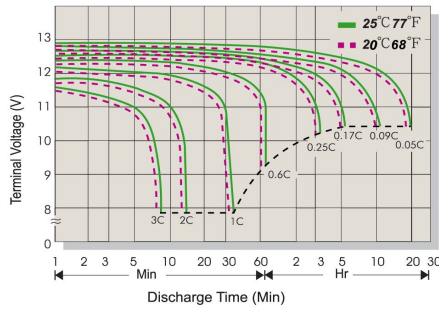


Specification:

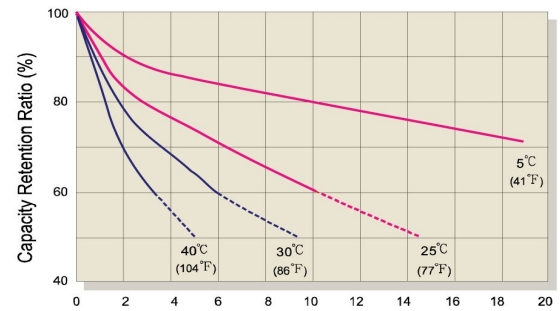
Battery Model	MNG 200-12 12V200AH			
Designed Floating Life	Up to 10 Years			
Capacity (25°C)	20HR(10.630A,10.8V)	10HR(20.000A,10.8V)	5HR(35.590A,10.5V)	1HR(110.020A,10.5V)
	212.60 AH	200.00 AH	177.95 AH	110.02 AH
Dimensions	Length	Width	Height	Total Height
	523 mm	240 mm	219 mm	223 mm
Approx. Weight	64.00 KG±3%			
Internal Resistance	Full charged at 25°C: ≤4.20 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	
	14.4-15.0V(-30mV/°C), max. Current: 60.00A		13.5-13.8V (-20mV/°C)	

FUJIAN MINHUA POWER SOURCE CO., LTD.

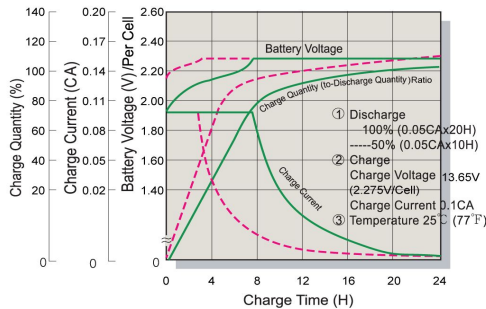
Terminal Voltage (V) and Discharge Time



Capacity Retention Characteristic



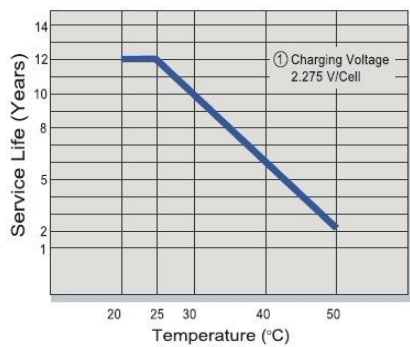
Battery Voltage and Charge Time for Standby Use



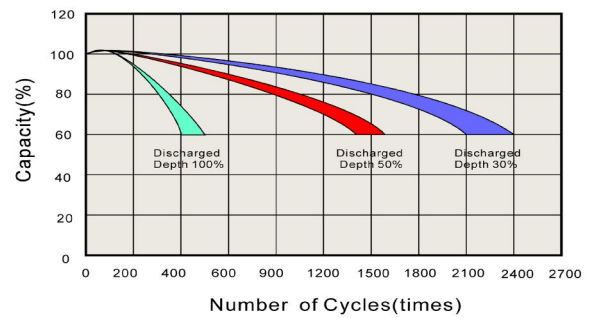
Battery Voltage and Charge Time for Cycle Use



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	628.6	427.6	292.8	178.05	109.10	68.09	52.93	41.63	35.29	23.58	20.00	10.63
1.75V/Cell	633.9	431.2	295.3	179.56	110.02	68.66	53.38	41.99	35.59	23.78	20.26	10.79
1.70V/Cell	649.8	442.0	302.6	184.05	112.77	70.38	54.72	43.03	36.48	24.37	20.56	10.95
1.67V/Cell	665.6	452.8	310.0	188.54	115.52	72.10	56.05	44.08	37.37	24.97	20.80	11.11
1.60V/Cell	695.2	473.0	323.8	196.93	120.67	75.31	58.55	46.05	39.03	26.08	21.10	11.26

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	1226	833.9	570.9	347.2	212.7	132.77	103.22	81.18	68.81	45.97	39.00	20.72
1.75V/Cell	1236	840.9	575.8	350.1	214.5	133.89	104.09	81.87	69.40	46.36	39.51	21.03
1.70V/Cell	1267	861.9	590.2	358.9	219.9	137.24	106.70	83.92	71.13	47.52	40.09	21.34
1.67V/Cell	1298	883.0	604.6	367.7	225.3	140.59	109.30	85.96	72.87	48.68	40.56	21.66
1.60V/Cell	1356	922.3	631.5	384.0	235.3	146.85	114.17	89.79	76.11	50.85	41.15	21.97