

MHB MNG Series—Storage-type Gelled Battery

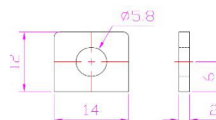
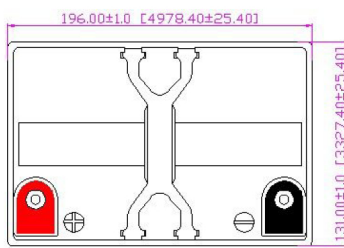
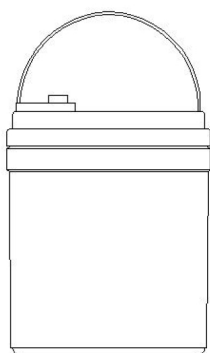
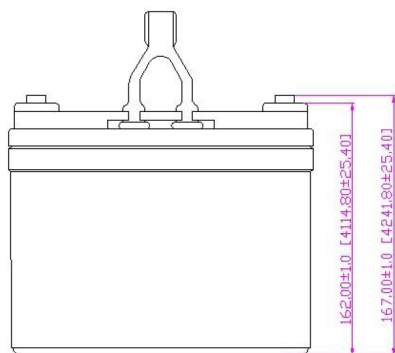
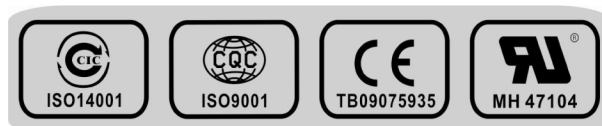
- Completely sealed and maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula, Gelled electrolyte formula and updated manufacturing technique
- Floating & standby use: up to 8 years
- Cycle use 1: Up to 400 cycles at 100% DOD
- Cycle use 2: Up to 800 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

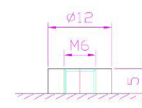
Construction:

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



M5 Bolt&Nut

T3 Terminal



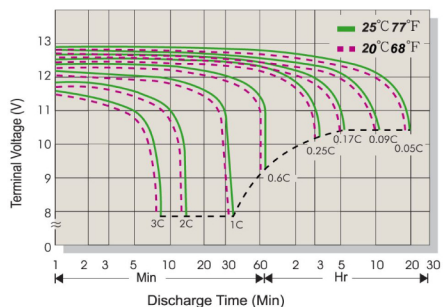
M6 Bolt

B2 Terminal

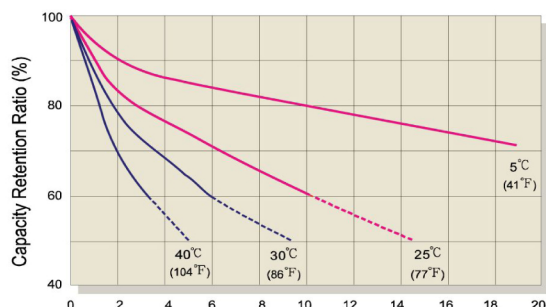
Speification:

Battery Model	MNG 33-12 12V33AH			
Designed Floating Life	Up to 8 Years			
Capacity (25℃)	20HR(1.75A,10.8V)	10HR(3.30A,10.8V)	5HR(5.43A,10.5V)	1HR(18.40A,10.5V)
	35.00AH	33.0AH	27.15AH	18.40AH
Dimensions	Length	Width	Height	Total Height
	196mm (7.72inch)	131mm (5.16inch)	161mm (6.34inch)	167mm (6.57inch)
Approx. Weight	11.00Kg (24.26 lbs)±5%			
Internal Resistance	Full charged at 25℃:≤7.4mΩ			
Self Discharge	2% of capacity declined per month at (25℃)			
Capacity Affected by Temp.(20HR)	40℃	25℃	0℃	-15℃
	102%	100%	85%	65%
Charge Voltage(25℃)	Cycle use		Float use	
	14.40-15.00V(-30mV/℃), max. Current:9.90A		13.50-13.80V (-20mV/℃)	

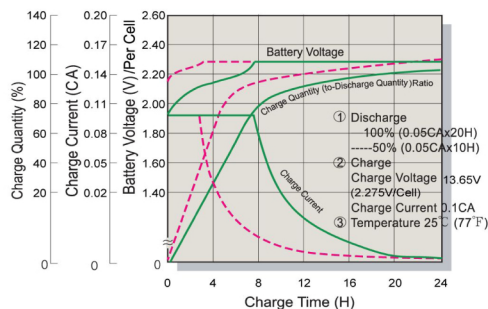
Terminal Voltage (V) and Discharge Time



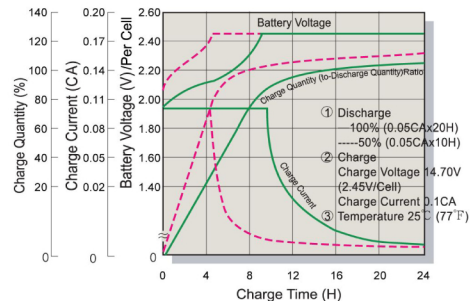
Capacity Retention Characteristic



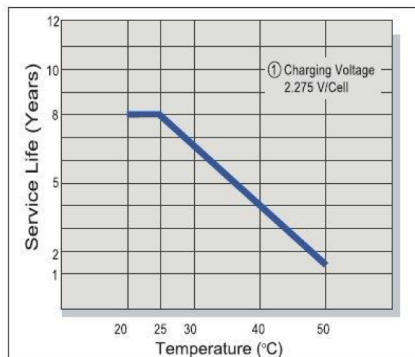
Battery Voltage and Charge Time for Standby Use



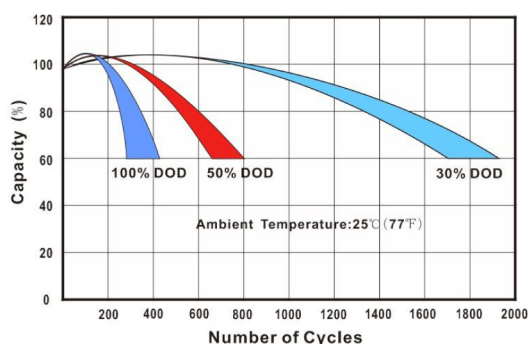
Battery Voltage and Charge Time for Cycle Use



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
1.85V/Cell	74.6	54.9	47.7	28.8	16.9	9.99	7.44	6.27	5.16	4.75	3.17	1.66
1.80V/Cell	77.4	57.0	49.5	29.9	17.7	10.41	7.77	6.53	5.38	4.95	3.30	1.75
1.75V/Cell	85.2	59.9	52.0	31.1	18.4	10.71	7.99	6.60	5.43	5.00	3.33	1.79
1.70V/Cell	95.2	62.7	54.4	32.6	18.7	10.91	8.14	6.66	5.48	5.05	3.37	1.83
1.67V/Cell	105.3	65.6	56.9	33.4	19.4	11.22	8.38	6.73	5.54	5.10	3.40	1.86

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
1.85V/Cell	141.7	104.4	90.6	54.7	32.2	19.0	14.13	11.92	9.81	9.03	6.02	3.01
1.80V/Cell	147.1	108.3	94.0	56.8	33.6	19.8	14.76	12.41	10.22	9.40	6.27	3.13
1.75V/Cell	161.8	113.8	98.8	59.0	34.9	20.4	15.17	12.54	10.32	9.50	6.33	3.17
1.70V/Cell	180.9	119.2	103.4	61.9	35.6	20.7	15.47	12.66	10.42	9.59	6.40	3.20
1.67V/Cell	200.0	124.6	108.2	63.5	36.9	21.3	15.93	12.79	10.52	9.69	6.46	3.23