

MHB MNG Series—Storage-type Gelled Battery

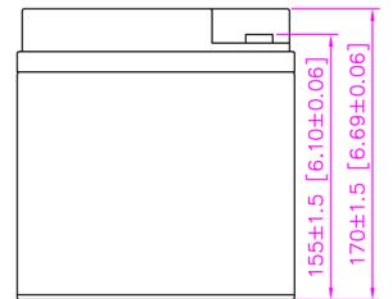
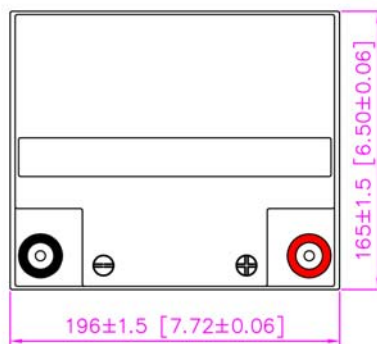
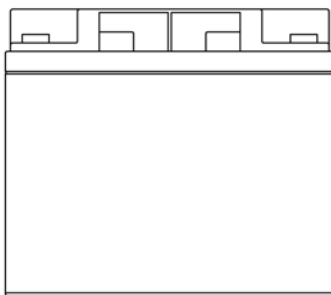
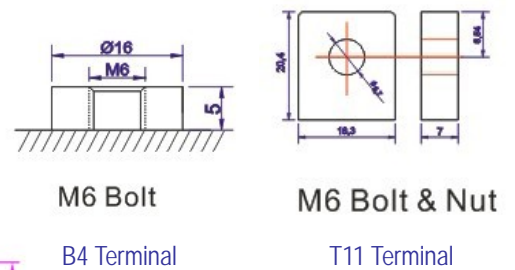
- Completely sealed and maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula, Gelled electrolyte formula and updated manufacturing technique
- Floating & standby use: up to 10 years
- Cycle use 1: Up to 350 cycles at 100% DOD
- Cycle use 2: Up to 1800 cycles at 30% 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:

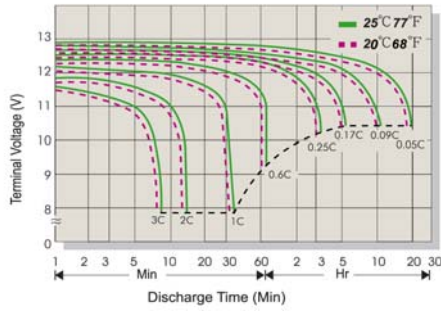
- ComponentRaw material
- PositiveLead dioxide
- NegativeLead
- ContainerABS
- CoverABS
- SealantEpoxy
- Safety valve Rubber
- TerminalCopper/Pb
- SeparatorFiber glass
- Electrolyte Sulfuric acid



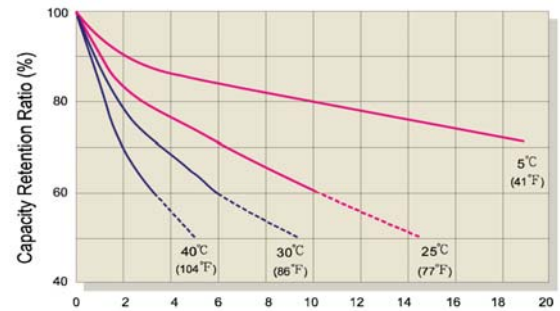
Speification:

Battery Model	MNG 40-12 12V40AH			
Designed Floating Life	Up to 10 Years			
Capacity (25°C)	20HR(2.02A,10.8V)	10HR(4.00A,10.8V)	5HR(6.65A,10.5V)	1HR(22.5A,10.5V)
	40.40AH	40.00AH	33.25AH	22.50AH
Dimensions	Length	Width	Height	Total Height
	196mm (7.72inch)	165mm (6.50inch)	170mm (6.69inch)	170mm (6.69inch)
Approx. Weight	13.20Kg (29.10 lbs)±5%			
Internal Resistance	Full charged at 25°C: ≤7.0mΩ			
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	
	14.40-15.00V(-30mV/°C), max. Current:12.0A		13.50-13.80V (-20mV/°C)	

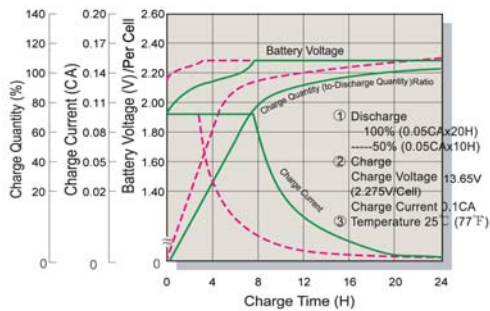
Terminal Voltage (V) and Discharge Time



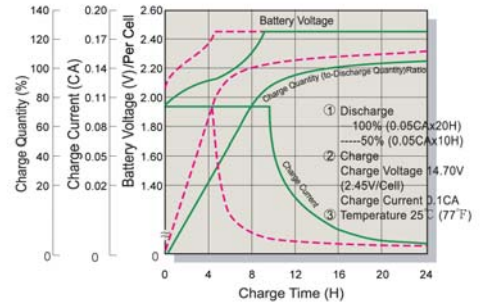
Capacity Retention Characteristic



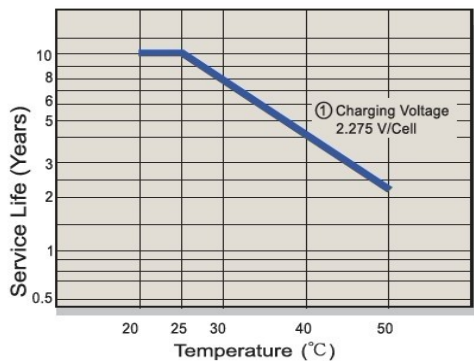
Battery Voltage and Charge Time for Standby Use



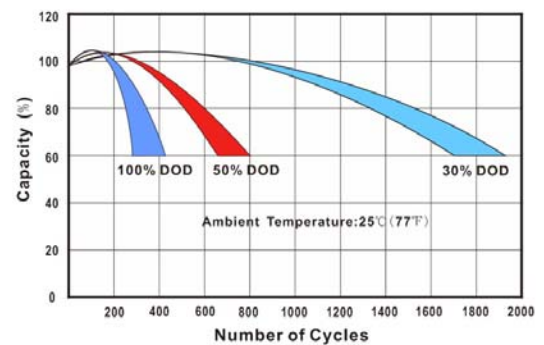
Battery Voltage and Charge Time for Cycle Use



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
1.85V/Cell	91.2	67.2	58.3	35.2	20.7	12.22	9.10	7.67	6.32	5.81	3.84	1.94
1.80V/Cell	94.7	69.8	60.6	36.6	21.6	12.73	9.50	7.99	6.58	6.06	4.00	2.02
1.75V/Cell	104.2	73.3	63.6	38.0	22.5	13.11	9.77	8.07	6.65	6.12	4.04	2.05
1.70V/Cell	116.5	76.7	66.6	39.8	22.9	13.35	9.96	8.15	6.71	6.19	4.09	2.09
1.67V/Cell	128.8	80.2	69.7	40.9	23.8	13.73	10.25	8.23	6.78	6.23	4.14	2.13

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	173.4	127.7	110.8	66.9	39.4	23.2	17.28	14.58	12.00	11.05	7.30	3.68
1.80V/Cell	179.9	132.6	115.1	69.5	41.1	24.2	18.05	15.19	12.50	11.51	7.60	3.84
1.75V/Cell	198.0	139.2	120.8	72.2	42.7	24.9	18.56	15.34	12.63	11.62	7.68	3.88
1.70V/Cell	221.3	145.8	126.6	75.7	43.5	25.4	18.92	15.49	12.75	11.74	7.75	3.91
1.67V/Cell	244.8	152.4	132.3	77.7	45.2	26.1	19.48	15.65	12.88	11.85	7.83	3.95