

MNG Series GEL Battery

MHB MNG Series—Storage-type Gelled Battery

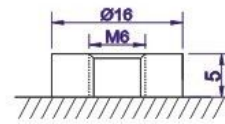
- High performance, completely maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating & standby use: up to 10 years
- Cycle use 1: Up to 350 cycles at 100% DOD
- Cycle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

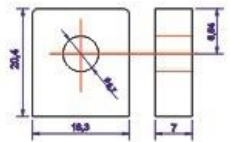
Construction:

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



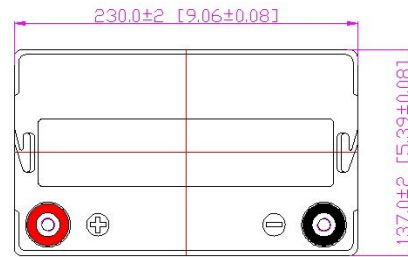
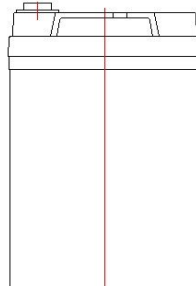
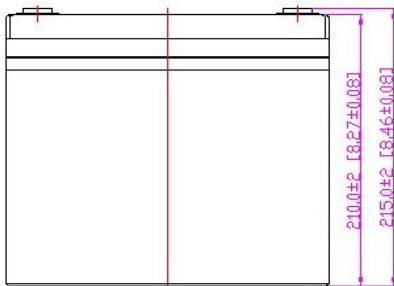
M6 Bolt

B4 Terminal



M6 Bolt & Nut

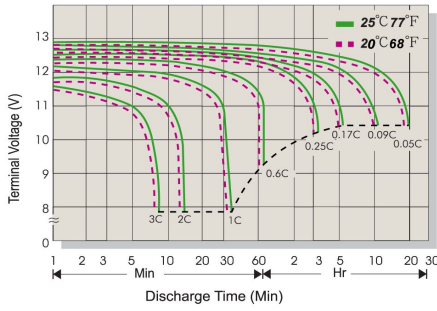
T11 Terminal



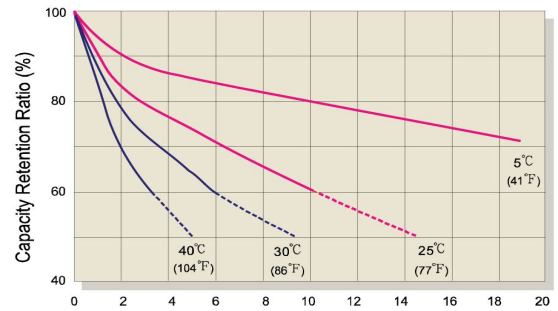
Specification:

Battery Model	MNG 55-12 12V55AH			
Designed Floating Life	Up to 10 Years			
Capacity (25°C)	20HR(2.77A,10.8V)	10HR(5.50A,10.8V)	5HR(9.05A,10.5V)	1HR(30.60A,10.5V)
	55.40AH	55.00AH	45.25AH	30.60AH
Dimensions	Length	Width	Height	Total Height
	230mm (9.06inch)	137mm (5.39inch)	210mm (8.27inch)	215mm (8.46inch)
Approx. Weight	17.50Kg ±3%			
Internal Resistance	Full charged at 25°C: ≤6.40mΩ			
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:16.5A		13.50-13.80V (-20mV/°C)	

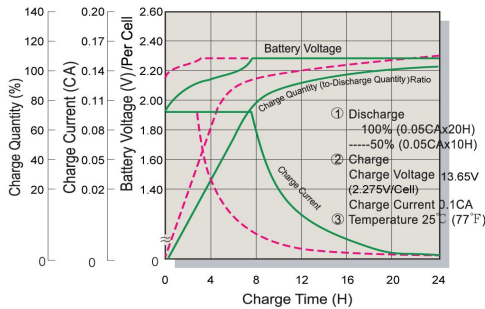
Terminal Voltage (V) and Discharge Time



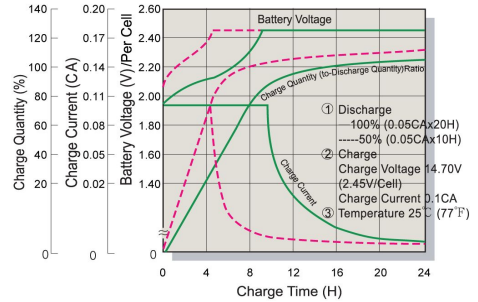
Capacity Retention Characteristic



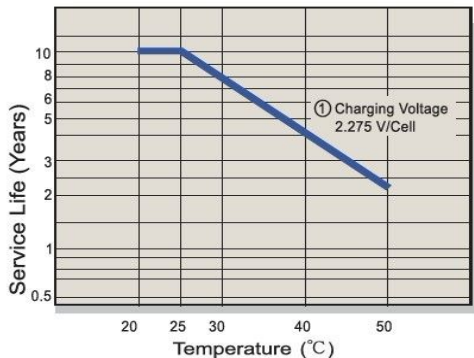
Battery Voltage and Charge Time for Standby Use



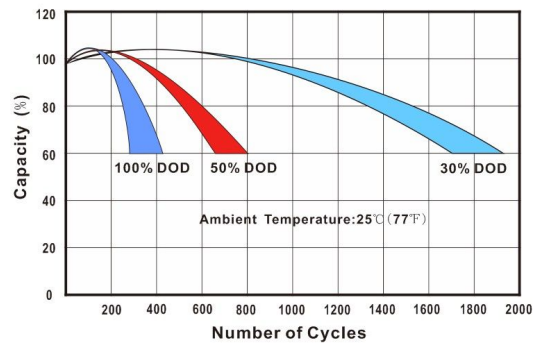
Battery Voltage and Charge Time for Cycle Use



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	124.3	91.6	79.5	48.0	28.2	16.64	12.39	10.45	8.60	7.92	5.28	2.64
1.80V/Cell	129.0	95.0	82.5	49.8	29.4	17.34	12.94	10.89	8.96	8.25	5.50	2.77
1.75V/Cell	141.9	99.8	86.6	51.8	30.6	17.86	13.31	11.00	9.05	8.33	5.56	2.78
1.70V/Cell	158.7	104.5	90.7	54.3	31.2	18.19	13.57	11.11	9.14	8.41	5.61	2.80
1.67V/Cell	175.5	109.3	94.9	55.7	32.4	18.70	13.97	11.22	9.23	8.50	5.66	2.83

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	236.1	173.9	151.0	91.1	53.6	31.6	23.55	19.86	16.34	15.05	10.03	5.02
1.80V/Cell	245.1	180.6	156.7	94.6	55.9	33.0	24.59	20.69	17.03	15.67	10.45	5.22
1.75V/Cell	269.7	189.6	164.6	98.4	58.2	33.9	25.29	20.90	17.20	15.83	10.55	5.28
1.70V/Cell	301.5	198.6	172.4	103.1	59.3	34.6	25.78	21.10	17.37	15.99	10.66	5.33
1.67V/Cell	333.4	207.7	180.3	105.9	61.5	35.5	26.54	21.31	17.54	16.15	10.76	5.38