

MNG Series GEL Battery

MHB MNG Series—Storage-type Gelled Battery

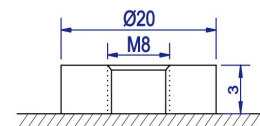
- High performance, completely maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating & standby use: up to 12 years
- Cycle use 1: Up to 350 cycles at 100% DOD
- Cycle use 2: Up to 1800 cycles at 50% DOD

Application:

- Telecommunications
- Alarm and security system
- Uninterruptable Power Supply (UPS)
- Communication power supply
- Electric Power System (EPS)
- DC power supply
- Emergency backup power supply
- Auto control system

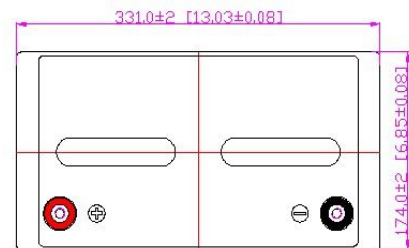
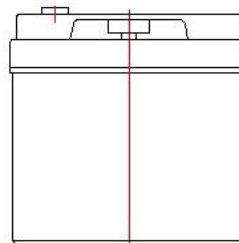
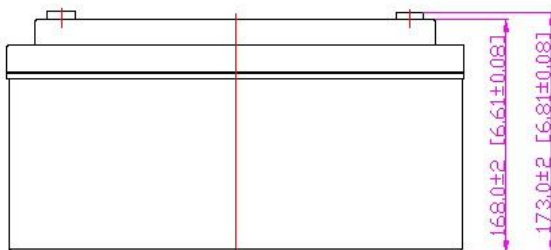
Construction:

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



M8 Bolt

B5 Terminal

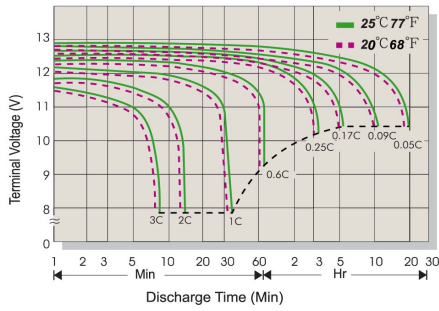


Specification:

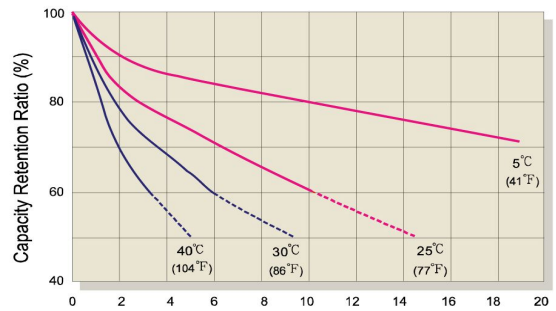
Battery Model	MNG 65-12 12V65AH			
Designed Floating Life	Up to 12 Years			
Capacity (25°C)	20HR(3.38A,10.8V)	10HR(6.50A,10.8V)	5HR(12.41A,10.5V)	1HR(41.54A,10.5V)
	67.60AH	65.00AH	62.05AH	41.54AH
Dimensions	Length	Width	Height	Total Height
	331mm (13.03inch)	174mm (6.85inch)	165mm (6.50inch)	168mm (6.61inch)
Approx. Weight	20.00Kg (44.10 lbs)±5%			
Internal Resistance	Full charged at 25°C: ≤8.0mΩ			
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:19.5A		13.50-13.80V (-20mV/°C)	

FUJIAN MINHUA POWER SOURCE CO., LTD.

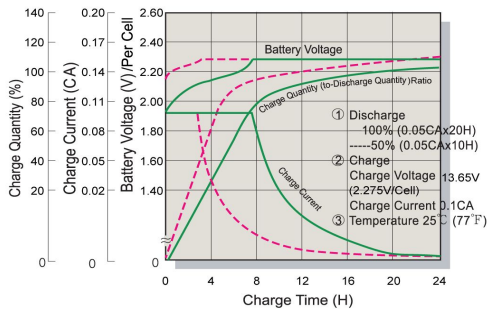
Terminal Voltage (V) and Discharge Time



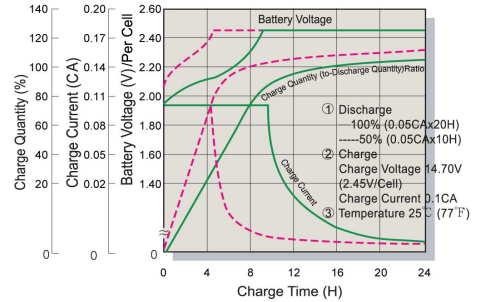
Capacity Retention Characteristic



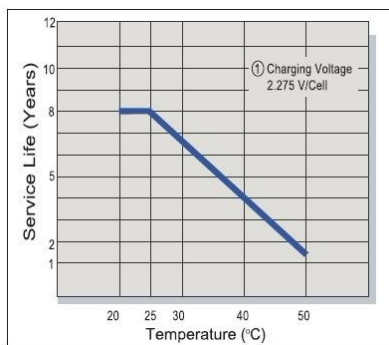
Battery Voltage and Charge Time for Standby Use



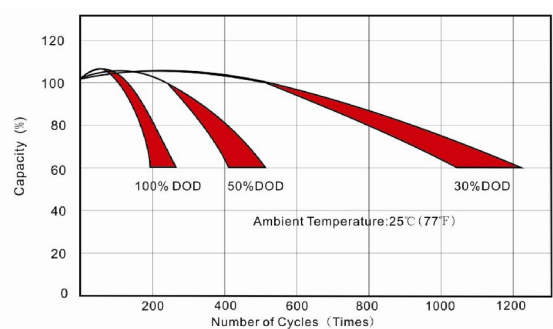
Battery Voltage and Charge Time for Cycle Use



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
1.85V/Cell	226.70	133.83	105.18	68.56	40.01	23.13	17.76	14.59	11.95	9.74	6.39	3.32
1.80V/Cell	231.03	136.38	107.19	69.87	40.78	23.57	18.10	14.86	12.18	9.93	6.50	3.38
1.75V/Cell	235.36	138.94	109.20	71.18	41.54	24.01	18.44	15.14	12.41	10.12	6.63	3.45
1.70V/Cell	256.55	147.27	115.75	74.02	42.27	24.44	18.77	15.41	12.63	10.29	6.75	3.51
1.67V/Cell	282.44	159.78	125.58	78.16	42.73	24.70	18.97	15.57	12.76	10.40	6.82	3.55

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	442.07	260.96	205.10	133.70	78.03	45.11	34.64	28.44	23.31	19.00	12.45	6.48
1.80V/Cell	450.51	265.94	209.02	136.25	79.52	45.97	35.30	28.99	23.75	19.36	12.68	6.60
1.75V/Cell	458.96	270.93	212.94	138.81	81.01	46.83	35.96	29.53	24.20	19.73	12.93	6.72
1.70V/Cell	500.26	287.19	225.71	144.34	82.44	47.65	36.59	30.05	24.62	20.07	13.16	6.84
1.67V/Cell	550.75	311.57	244.88	152.41	83.32	48.16	36.99	30.37	24.89	20.29	13.30	6.91