

MNG Series GEL Battery

MHB MNG Series-- Storage-type Gelled Battery

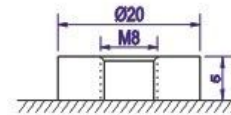
- completely sealed and maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula, Gelled electrolyte formula and updated manufacturing technique
- Floating & standby use: up to 12 years
- Cycle use 1: More than 350 cycles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



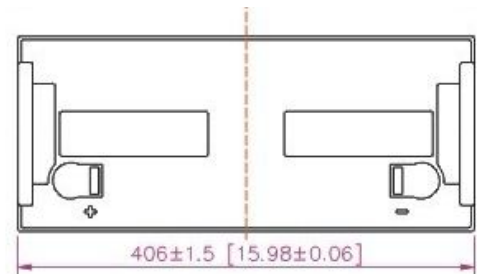
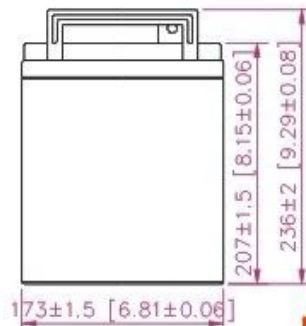
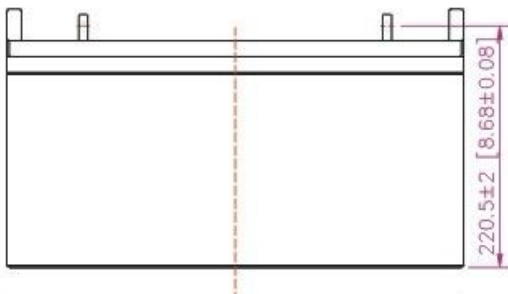
M8 Bolt



M8 Bolt

B5 Terminal

T14 Terminal

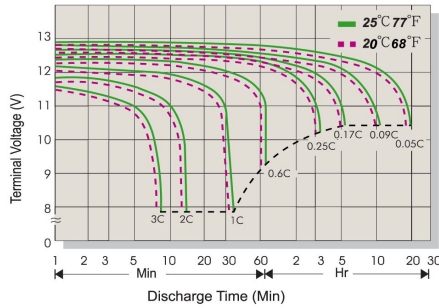


Specification:

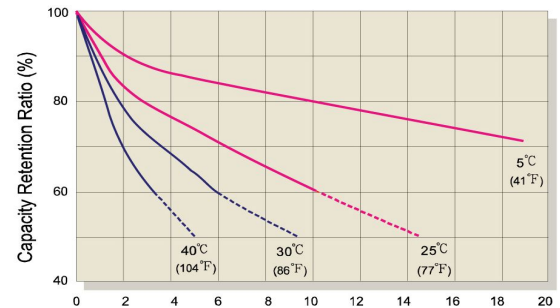
Battery Model	MNG 120-12 12V120AH			
Designed Floating Life	Up to 12 Years			
Capacity (25°C)	20HR(6.0A,10.50V)	10HR(12.0A,10.50V)	5HR(19.76A,10.5V)	3HR(28.2A,10.5V)
	120AH	120AH	98.8AH	84.6AH
Dimensions	Length	Width	Height	Total Height
	406mm (15.98inch)	173mm 6.81inch)	207mm (8.15inch)	236mm (9.29inch)
Approx. Weight	36.0Kg (79.38 lbs)			
Internal Resistance	Full charged at 25°C: ≤6mΩ			
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%	88%	78%
Charge Voltage(25oC)	Cycle use		Float use	
	14.4-14.6V(-30mV/°C), max. Current: 36.0A		13.6-13.8V (-20mV/°C)	

FUJIAN MINHUA POWER SOURCE CO., LTD.

Terminal Voltage (V) and Discharge Time



Capacity Retention Characteristic



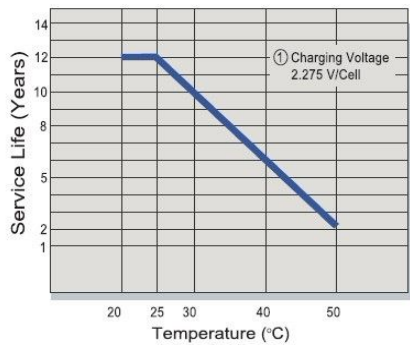
Battery Voltage and Charge Time for Standby Use



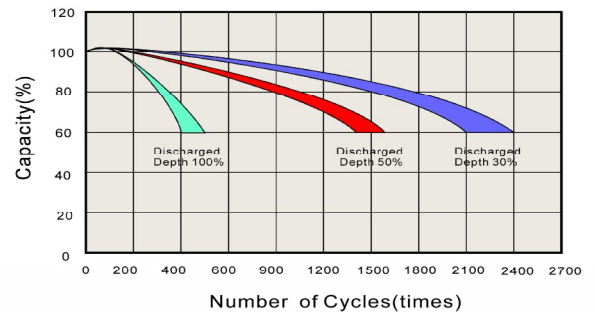
Battery Voltage and Charge Time for Cycle Use



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
1.85V/Cell	271.2	199.7	173.4	104.6	61.6	36.3	27.1	22.81	18.78	17.28	11.52	5.88
1.80V/Cell	281.5	207.4	180.0	108.6	64.2	37.8	28.2	23.76	19.56	18.00	12.00	6.00
1.75V/Cell	309.7	217.7	189.0	112.9	66.8	38.9	29.0	24.00	19.76	18.18	12.12	6.06
1.70V/Cell	346.3	228.1	198.0	118.4	68.1	39.7	29.6	24.24	19.95	18.36	12.24	6.12
1.67V/Cell	382.9	238.5	207.0	121.6	70.6	40.8	30.5	24.47	20.15	18.54	12.36	6.18

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	515.2	379.5	329.4	198.7	117.1	68.9	51.4	43.34	35.68	32.83	21.89	11.16
1.80V/Cell	534.9	394.0	342.0	206.3	122.0	71.8	53.6	45.14	37.16	34.20	22.80	11.40
1.75V/Cell	588.4	413.7	359.1	214.6	126.9	74.0	55.2	45.60	37.54	34.54	23.03	11.51
1.70V/Cell	657.9	433.4	376.2	224.9	129.3	75.4	56.3	46.05	37.91	34.88	23.26	11.63
1.67V/Cell	727.4	453.1	393.3	231.1	134.2	77.6	57.9	46.50	38.28	35.23	23.48	11.74