

#### MHB MNG Series—Storage-type Gelled Battery

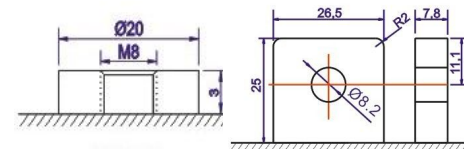
- High performance, completely maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating & standby use: up to 12 years
- Cycle use 1: Up to 350 cycles at 100% DOD
- Cycle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

#### Application:

- Telecommunications
- 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:

- Component .....Raw material
- Positive .....Lead dioxide
- Negative .....Lead
- Container .....ABS
- Cover .....ABS
- Sealant .....Epoxy
- Safety valve .... Rubber
- Terminal .....Copper/Pb
- Separator .....Fiber glass
- Electrolyte ..... Sulfuric acid

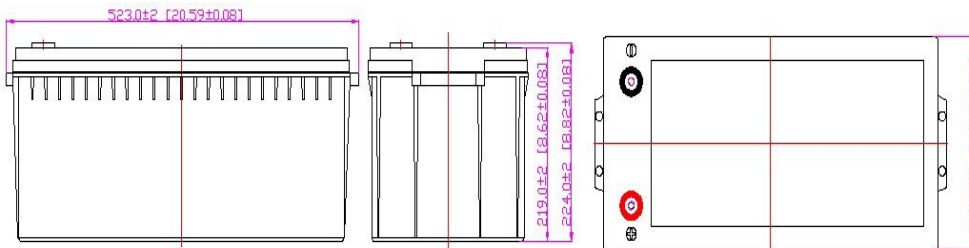


M8 Bolt

M8 Bolt & Nut

B5 Terminal

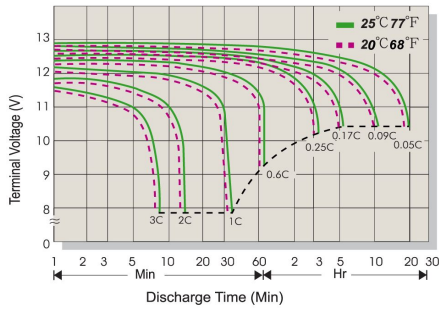
T16 Terminal



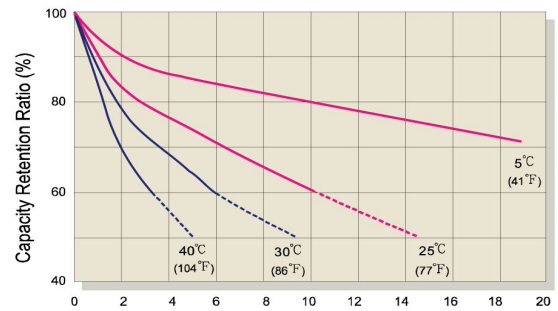
#### Specification:

Battery Model	MNG 170-12 12V170AH			
Designed Floating Life	Up to 12 Years			
Capacity (25°C)	20HR(9.29A,10.8V)	10HR(17.5A,10.8V)	5HR(34.05A,10.5V)	1HR(114.0A,10.5V)
	185.8AH	175.0AH	170.3AH	114.0AH
Dimensions	Length	Width	Height	Total Height
	523mm (20.59inch)	240mm (9.45inch)	219mm (8.62inch)	224mm (8.78inch)
Approx. Weight	53.2Kg (115.76 lbs)			
Internal Resistance	Full charged at 25°C: ≤4.0mΩ			
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(25oC)	Cycle use		Float use	
	14.4-14.6V(-30mV/°C), max. Current:52.5A		13.6-13.8V (-20mV/°C)	

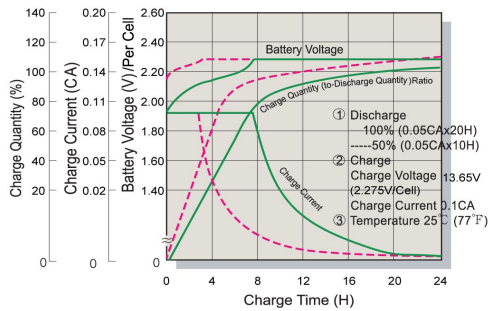
### Terminal Voltage (V) and Discharge Time



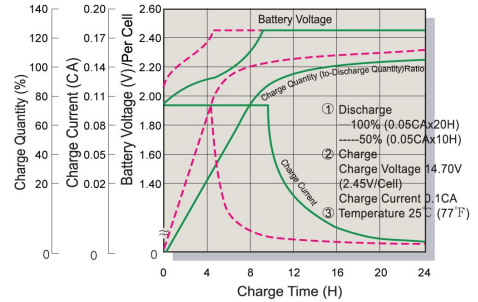
### Capacity Retention Characteristic



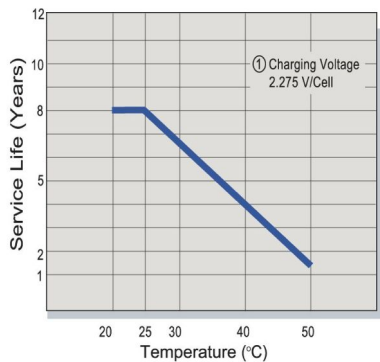
### Battery Voltage and Charge Time for Standby Use



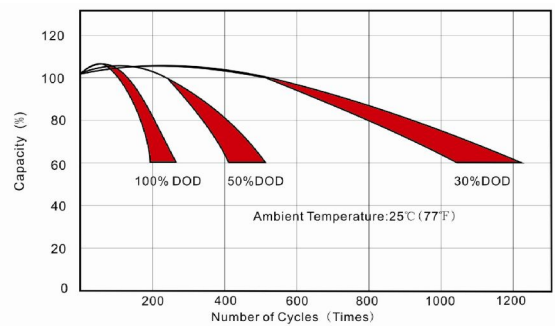
### Battery Voltage and Charge Time for Cycle Use



### 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	604.31	356.74	280.38	182.77	106.67	61.66	47.35	38.88	31.86	25.97	16.70	8.85
1.80V/Cell	615.86	363.55	285.73	186.26	108.70	62.84	48.25	39.62	32.47	26.47	17.00	9.02
1.75V/Cell	627.40	370.37	291.09	189.75	110.74	64.02	49.16	40.37	33.08	26.97	17.34	9.19
1.70V/Cell	683.87	392.59	308.56	197.32	112.69	65.14	50.02	41.08	33.66	27.44	17.65	9.35
1.67V/Cell	752.88	425.92	334.75	208.35	113.90	65.84	50.56	41.52	34.02	27.74	17.83	9.45

### 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	1178.41	695.63	546.74	356.40	208.00	120.24	92.33	75.82	62.13	50.65	32.57	17.26
1.80V/Cell	1200.92	708.92	557.18	363.20	211.97	122.53	94.10	77.27	63.32	51.62	33.15	17.59
1.75V/Cell	1223.44	722.21	567.63	370.01	215.95	124.83	95.86	78.72	64.50	52.59	33.81	17.92
1.70V/Cell	1333.55	765.54	601.68	384.78	219.75	127.03	97.55	80.10	65.64	53.51	34.41	18.24
1.67V/Cell	1468.12	830.54	652.77	406.27	222.10	128.39	98.59	80.96	66.34	54.08	34.78	18.43