

MHB MN Series—Deep Cycle SLA Battery

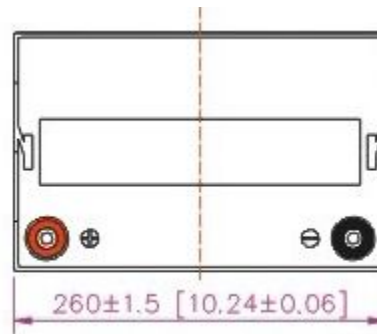
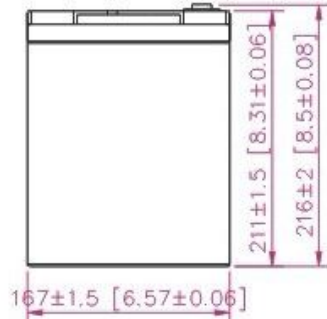
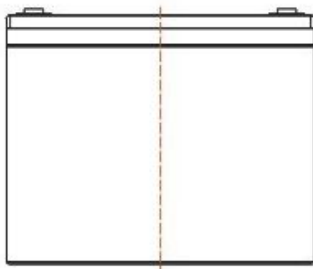
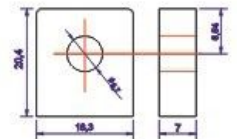
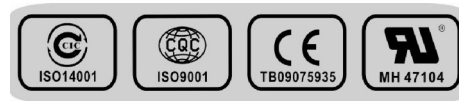
- completely sealed and maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula, Gelled electrolyte formula and updated manufacturing technique
- Floating & standby use: up to 10 years
- Cycle use 1: More than 350 cycles at 100% DOD
- Cycle use2: More than 1800cycles at 30% DOD

Application:

- Telecommunications
- UPS/EPS
- DC PowerSupply
- Solar system
- Wind Power System
- Auto Control Sytem

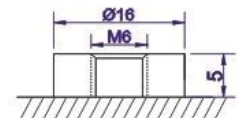
Construction:

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



M6 Bolt & Nut

T11 Terminal



M6 Bolt

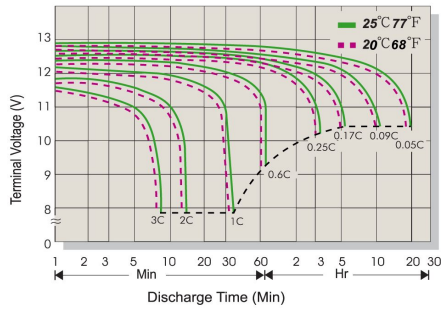
B4 Terminal

Speification:

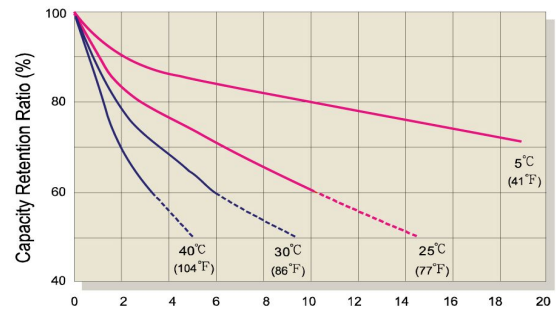
| | | | | |
|----------------------------------|---|--------------------|-----------------------|--------------------|
| Battery Model | MNG80-12 12V80AH | | | |
| Designed Floating Life | Up to 10 Years | | | |
| Capacity (25°C) | 20HR(4.290A,10.8V) | 10HR(8.000A,10.8V) | 5HR(14.370A,10.5V) | 1HR(44.430A,10.5V) |
| | 85.80 AH | 80.00 AH | 71.85 AH | 44.43 AH |
| Dimensions | Length | Width | Height | Total Height |
| | 260 mm | 167 mm | 213 mm | 216 mm |
| Approx. Weight | 26.00 KG ± 3% | | | |
| Internal Resistance | Full charged at 25°C: ≤ 7.20 mΩ | | | |
| 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:22.00A | | 13.5-13.8V (-20mV/°C) | |

FUJIAN MINHUA POWER SOURCE CO., LTD.

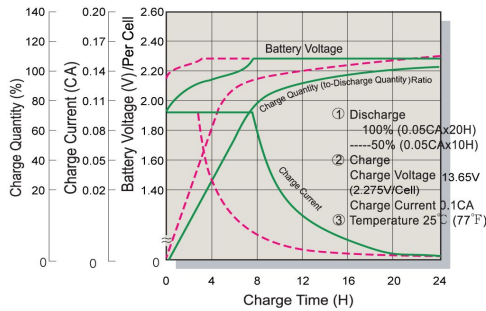
Terminal Voltage (V) and Discharge Time



Capacity Retention Characteristic



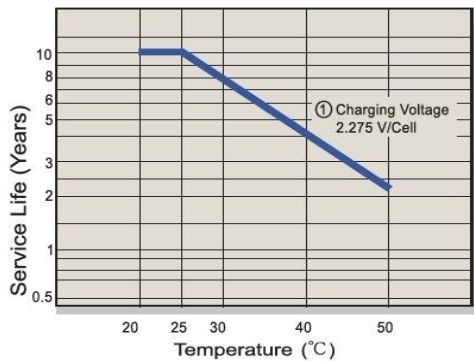
Battery Voltage and Charge Time for Standby Use



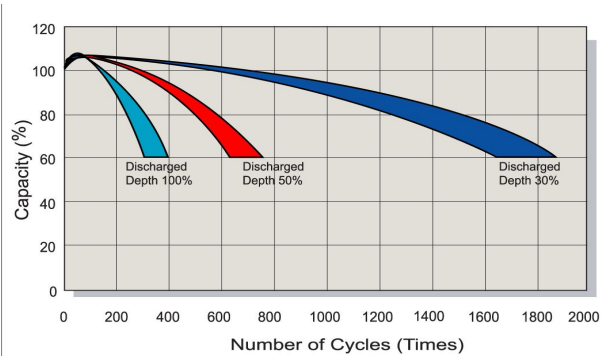
Battery Voltage and Charge Time for Cycle Use



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 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 1.80V/Cell | 253.9 | 172.7 | 118.2 | 71.91 | 44.06 | 27.50 | 21.38 | 16.81 | 14.25 | 9.52 | 8.00 | 4.29 |
| 1.75V/Cell | 256.0 | 174.2 | 119.2 | 72.52 | 44.43 | 27.73 | 21.56 | 16.96 | 14.37 | 9.60 | 8.12 | 4.36 |
| 1.70V/Cell | 262.4 | 178.5 | 122.2 | 74.33 | 45.54 | 28.42 | 22.10 | 17.38 | 14.73 | 9.84 | 8.24 | 4.42 |
| 1.67V/Cell | 268.8 | 182.9 | 125.2 | 76.14 | 46.66 | 29.12 | 22.64 | 17.80 | 15.09 | 10.08 | 8.36 | 4.48 |
| 1.60V/Cell | 280.8 | 191.0 | 130.8 | 79.53 | 48.73 | 30.41 | 23.64 | 18.60 | 15.76 | 10.53 | 8.48 | 4.55 |

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 |
|------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|------|
| 1.80V/Cell | 495.0 | 336.8 | 230.6 | 140.2 | 85.9 | 53.62 | 41.69 | 32.79 | 27.79 | 18.57 | 15.60 | 8.37 |
| 1.75V/Cell | 499.2 | 339.6 | 232.5 | 141.4 | 86.6 | 54.07 | 42.04 | 33.06 | 28.03 | 18.72 | 15.83 | 8.49 |
| 1.70V/Cell | 511.7 | 348.1 | 238.3 | 144.9 | 88.8 | 55.43 | 43.09 | 33.89 | 28.73 | 19.19 | 16.07 | 8.62 |
| 1.67V/Cell | 524.2 | 356.6 | 244.2 | 148.5 | 91.0 | 56.78 | 44.14 | 34.72 | 29.43 | 19.66 | 16.30 | 8.75 |
| 1.60V/Cell | 547.5 | 372.5 | 255.0 | 155.1 | 95.0 | 59.31 | 46.11 | 36.26 | 30.74 | 20.54 | 16.54 | 8.87 |