

#### MHB MS Series--Small-size batteries

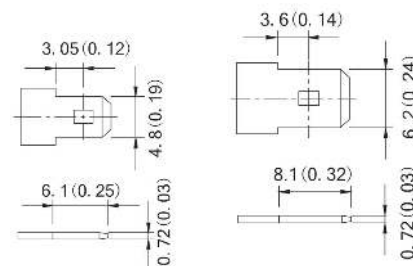
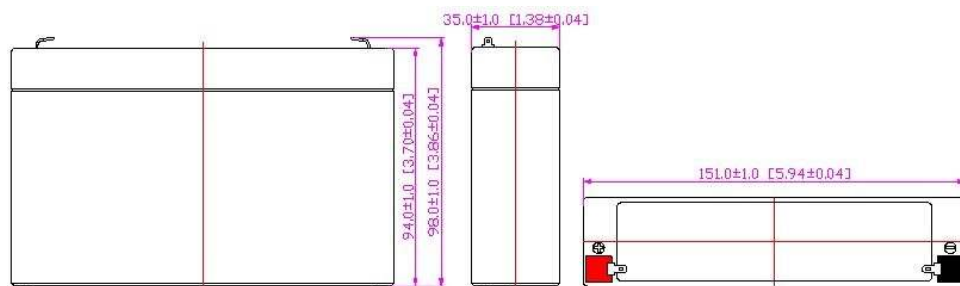
- 100% before shipment testing, stable and reliable long-term quality
- patented grid alloy formula and updated manufacturing technique
- completely sealed and maintenance-free, low self-discharge
- Excellent charging and re-charging acceptance
- Cycle use: More than 260 cycles at 100% DOD
- Floating & standby use: 3-5 years

#### Application:

- Alarm System
- Cable Television
- Communication Equipment
- Emergency Power System
- Security System
- Medical Equipment
- UPS
- Power tools
- Control Equipment
- Toys

#### Construction:

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



F1 Terminal

F2 Terminal

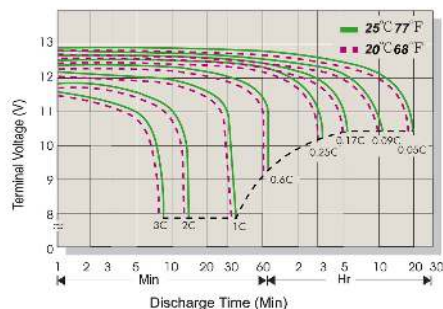
#### Speification:

| Battery Model                    | MS 7-6 6V7.0AH                             |                    |                      |                  |
|----------------------------------|--------------------------------------------|--------------------|----------------------|------------------|
| Designed Floating Life           | 3~5 Years                                  |                    |                      |                  |
| Capacity (25℃)                   | 20HR(0.35A,5.25V)                          | 10HR(0.677A,5.25V) | 5HR(1.33A,5.25V)     | 1HR(4.54A,5.25V) |
|                                  | 7.00AH                                     | 6.77AH             | 6.65AH               | 4.54AH           |
| Dimensions                       | Length                                     | Width              | Height               | Total Height     |
|                                  | 151mm (5.94inch)                           | 35mm (1.38inch)    | 94mm (3.70inch)      | 98mm (3.86inch)  |
| Approx. Weight                   | 1.17Kg (2.58lbs) ±5%                       |                    |                      |                  |
| Internal Resistance              | Full charged at 25℃ : ≤20mΩ                |                    |                      |                  |
| Self Discharge                   | 2% of capacity declined per month at (25℃) |                    |                      |                  |
| Capacity Affected by Temp.(20HR) | 40℃                                        | 25℃                | 0℃                   | -15℃             |
|                                  | 102%                                       | 100%               | 85%                  | 65%              |
| Charge Voltage(25℃)              | Cycle use                                  |                    | Float use            |                  |
|                                  | 7.20-7.50V(-15mV/℃), max. Current: 2.10A   |                    | 6.75-6.90V (-10mV/℃) |                  |

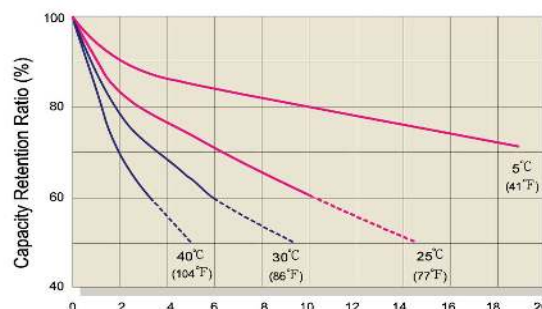
**FUJIAN MINHUA POWER SOURCE CO., LTD.**

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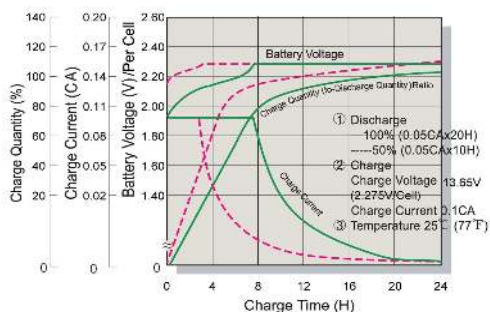
### Terminal Voltage (V) and Discharge Time



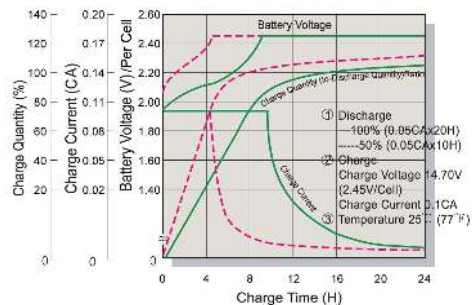
### Capacity Retention Characteristic



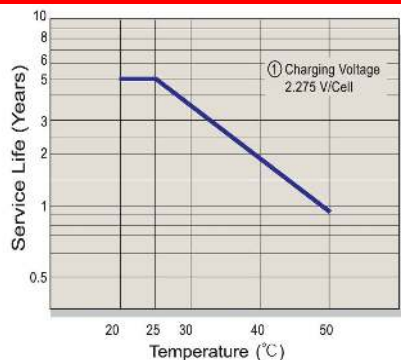
### Battery Voltage and Charge Time for Standby Use



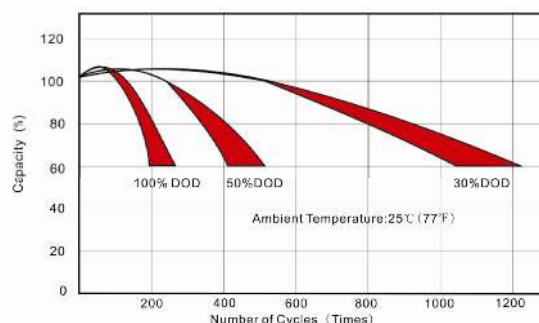
### Battery Voltage and Charge Time for Cycle Use



### Float(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 | 21.33 | 15.95 | 11.69 | 7.63  | 4.38 | 2.35 | 1.94 | 1.481 | 1.281 | 1.023 | 0.652 | 0.337 |
| 1.80V/Cell | 21.74 | 16.25 | 11.91 | 7.78  | 4.46 | 2.39 | 1.98 | 1.509 | 1.305 | 1.042 | 0.665 | 0.344 |
| 1.75V/Cell | 22.14 | 16.56 | 12.14 | 7.93  | 4.54 | 2.44 | 2.01 | 1.537 | 1.330 | 1.062 | 0.677 | 0.350 |
| 1.70V/Cell | 24.14 | 17.55 | 12.86 | 8.24  | 4.62 | 2.48 | 2.05 | 1.564 | 1.353 | 1.081 | 0.689 | 0.356 |
| 1.67V/Cell | 26.57 | 19.04 | 13.96 | 8.70  | 4.67 | 2.51 | 2.07 | 1.581 | 1.368 | 1.092 | 0.696 | 0.360 |
| 1.60V/Cell | 28.79 | 20.03 | 14.68 | 9.08  | 4.72 | 2.53 | 2.09 | 1.598 | 1.382 | 1.104 | 0.704 | 0.364 |

### 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 | 41.59 | 31.09 | 22.79 | 14.89 | 8.53 | 4.58 | 3.78 | 2.89 | 2.50 | 1.99 | 1.27 | 0.66 |
| 1.80V/Cell | 42.39 | 31.69 | 23.23 | 15.17 | 8.70 | 4.67 | 3.85 | 2.94 | 2.55 | 2.03 | 1.30 | 0.67 |
| 1.75V/Cell | 43.18 | 32.28 | 23.67 | 15.46 | 8.86 | 4.75 | 3.92 | 3.00 | 2.59 | 2.07 | 1.32 | 0.68 |
| 1.70V/Cell | 47.07 | 34.22 | 25.08 | 16.07 | 9.01 | 4.84 | 3.99 | 3.05 | 2.64 | 2.11 | 1.34 | 0.69 |
| 1.67V/Cell | 51.82 | 37.12 | 27.21 | 16.97 | 9.11 | 4.89 | 4.04 | 3.08 | 2.67 | 2.13 | 1.36 | 0.70 |
| 1.60V/Cell | 56.14 | 39.06 | 28.63 | 17.70 | 9.21 | 4.94 | 4.08 | 3.12 | 2.70 | 2.15 | 1.37 | 0.71 |