

## GENERAL FEATURES

- Environmentally friendly
- Thick plate with high Tin low Calcium alloy
- High Reliability and Good Quality
- Deep Discharge Recovery
- High Power Density
- Long Service Life, in Float or Cyclic

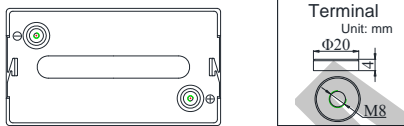
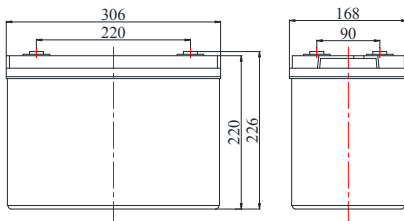
## APPLICATIONS

- Solar & Wind energy system
- Cable TV Systems
- Telecom systems
- Wheel chair & Golf Car
- Marine Equipment
- Railway Systems
- Emergency Power System



## DIMENSIONS & WEIGHT

|                  |         |
|------------------|---------|
| Length(mm)       | 306±1   |
| Width(mm)        | 168±1   |
| Height(mm)       | 220±1   |
| Total Height(mm) | 226±1   |
| Weight(kg)       | 30.0±3% |



## COMPLIED STANDARDS

|                 |              |
|-----------------|--------------|
| IEC 60896-21/22 | JIS C8704    |
| YD/T799         | BS6290 part4 |
| GB/T 19638      | UL 1989      |

## TECHNICAL SPECIFICATIONS



|  |                             |   |
|--|-----------------------------|---|
| Nominal Voltage                                    |                             | 6V(3 cells per unit)  |
| Design Floating Life @25°C                         |                             | 12 Years  |
| Nominal Capacity @25°C (20 hour rate@10.00A,5.25V) |                             | 200Ah   |
| Capacity @25°C                                     | 10 hour rate (18.20A,5.40V) | 182.0Ah   |
|  | 5 hour rate (31.80A,5.25V)  | 159.0Ah   |
|  | 1 hour rate (111.2A,4.80V)  | 111.2Ah   |
| Internal Resistance                                | Full Charged Battery@25°C   | ≤3.0mΩ  |
| Ambient Temperature                                | Discharge                   | -20°C~50°C  |
|  | Charge                      | -20°C~50°C  |
|  | Storage                     | -20°C~50°C  |
| Max.Discharge Current@25°C                         |                             | 2000A(5s)   |
| Capacity affected by Temperature (10 hr Capacity)  | 40°C                        | 102%  |
|  | 25°C                        | 100%  |
|  | 0°C                         | 85%   |
|  | -15°C                       | 65%   |
| Self-Discharge@25°C per Month                      |                             | 3%  |
| Charge (Constant Voltage) @25°C                    | Standby Use                 | Initial Charging Current Less than 36.0A<br>Voltage 6.8-6.9V  |
|  | Cycle Use                   | Initial Charging Current Less than 36.0A<br>Voltage 7.2-7.45V |

## BATTERY DISCHARGE TABEL

### Discharge Constant Current per Cell (Amperes at 25°C)

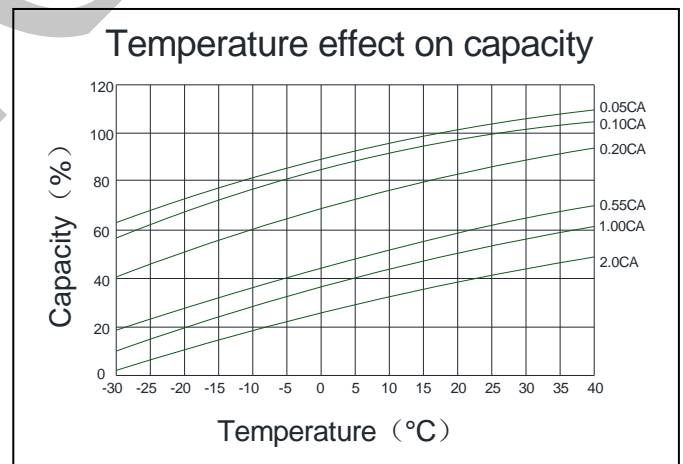
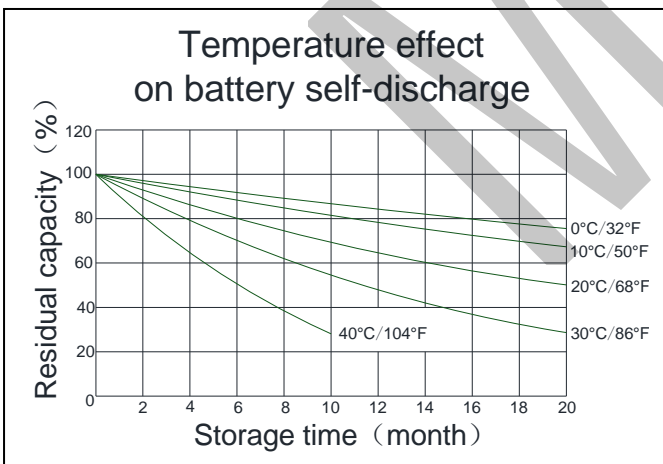
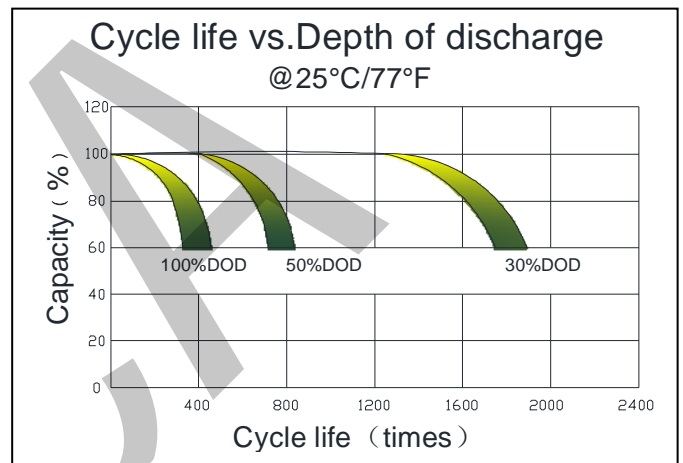
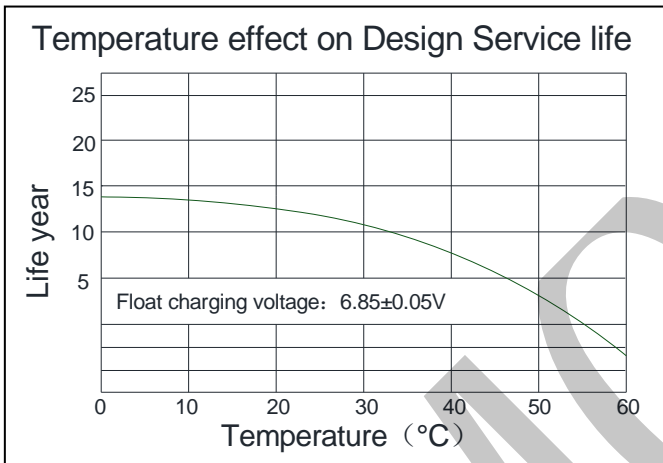
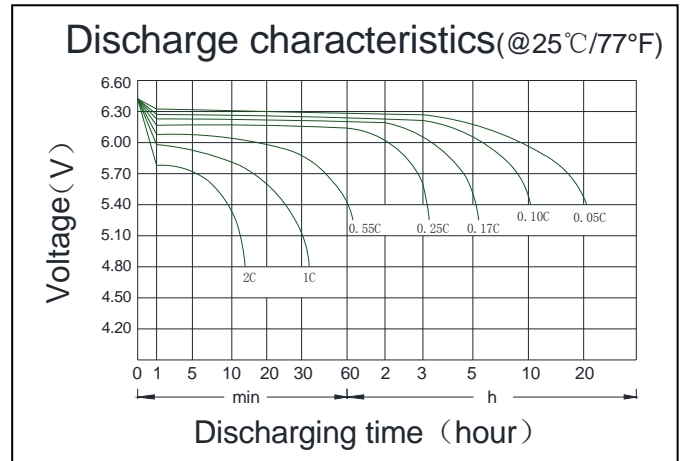
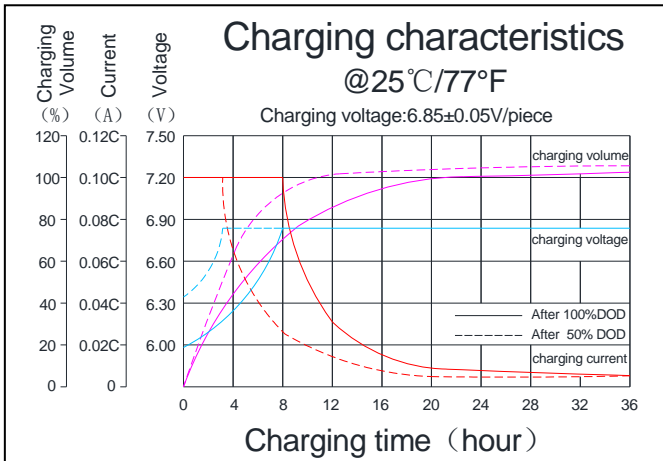
| F.V/Time | 15min | 30min | 45min | 1h    | 2h   | 3h   | 5h   | 8h   | 10h   | 20h   | 100h |
|----------|-------|-------|-------|-------|------|------|------|------|-------|-------|------|
| 1.60V    | 257.4 | 164.4 | 120.8 | 111.2 | 70.6 | 49.6 | 33.6 | 22.2 | 19.80 | 10.60 | 2.40 |
| 1.67V    | 252.8 | 161.4 | 118.6 | 109.0 | 69.2 | 48.6 | 33.0 | 21.8 | 19.40 | 10.40 | 2.36 |
| 1.70V    | 248.0 | 158.4 | 116.4 | 107.0 | 68.0 | 47.8 | 32.4 | 21.4 | 19.00 | 10.20 | 2.30 |
| 1.75V    | 243.4 | 155.4 | 114.2 | 105.0 | 66.6 | 46.8 | 31.8 | 21.0 | 18.80 | 10.00 | 2.26 |
| 1.80V    | 234.0 | 149.4 | 109.8 | 101.0 | 64.0 | 45.0 | 30.6 | 20.2 | 18.20 | 9.90  | 2.22 |

### Discharge Constant Power per Cell (Watts at 25°C)

| F.V/Time | 15min | 30min | 45min | 1h    | 2h    | 3h   | 5h   | 8h   | 10h  | 20h  | 100h |
|----------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V    | 495.4 | 316.4 | 232.6 | 213.4 | 135.6 | 95.2 | 64.8 | 42.6 | 38.2 | 20.7 | 4.62 |
| 1.67V    | 486.4 | 310.6 | 228.2 | 209.6 | 133.2 | 93.6 | 63.6 | 42.0 | 37.4 | 20.2 | 4.52 |
| 1.70V    | 477.4 | 304.8 | 224.0 | 205.6 | 130.8 | 91.8 | 62.4 | 41.2 | 36.8 | 20.1 | 4.44 |
| 1.75V    | 468.4 | 299.0 | 219.8 | 201.8 | 128.2 | 90.0 | 61.2 | 40.4 | 36.0 | 19.8 | 4.36 |
| 1.80V    | 450.4 | 287.6 | 211.4 | 194.0 | 123.4 | 86.6 | 59.0 | 38.8 | 34.6 | 19.2 | 4.28 |

**Note** The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact MCA for the latest information.

## PERFORMANCE CHARACTERISTICS



## BATTERY CONSTRUCTION

| Component | Positive plate                               | Negative plate  | Container & Cover      | Safety valve                        | Terminal                               | Separator  | Electrolyte                       | Pillar seal                 |
|-----------|--|---|------------------------|-------------------------------------|--|--|-----------------------------------|-----------------------------|
| Features  | Thick high Sn low Ca grid with special paste | Balanced Pb-Ca grid for improved recombination efficiency | ABS (UL94-V0 optional) | Flame Si-Rubbeand aging resistancer | Female Copper Insert M8(torque:7~9N.m) | Advanced AGM separator for high pressure cell design | Dilute high purity sulphuric acid | Two layers epoxy resin seal |