

### 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

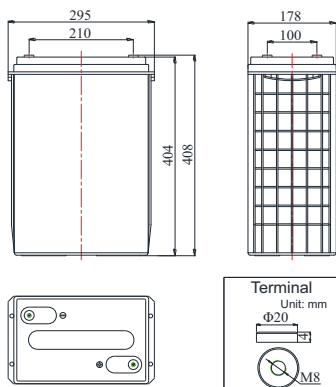
### APPLICATIONS

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



### DIMENSIONS & WEIGHT

|                  |         |
|------------------|---------|
| Length(mm)       | 295±1   |
| Width(mm)        | 178±1   |
| Height(mm)       | 404±1   |
| Total Height(mm) | 424±1   |
| Weight(kg)       | 55.4±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 @19.00A,5.25V) |                              | 380Ah                                                         |
| Capacity @25°C                                      | 10 hour rate ( 34.58A,5.40V) | 345.8Ah                                                       |
|                                                     | 5 hour rate (60.40A,5.25V)   | 302.0Ah                                                       |
|                                                     | 1 hour rate ( 211.3A,4.80V)  | 211.3Ah                                                       |
| Internal Resistance                                 | Full Charged Battery@25 °C   | ≤2.0mΩ                                                        |
| 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 68.4A<br>Voltage 6.8-6.9V  |
|                                                     | Cycle Use                    | Initial Charging Current Less than 68.4A<br>Voltage 7.2-7.45V |

### BATTERY DISCHARGE TABLE

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

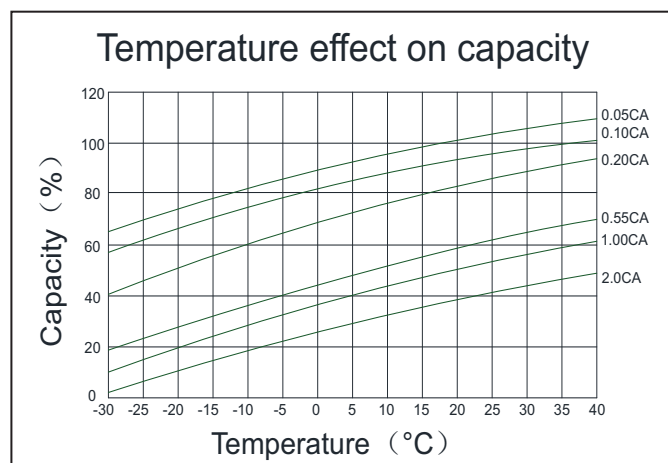
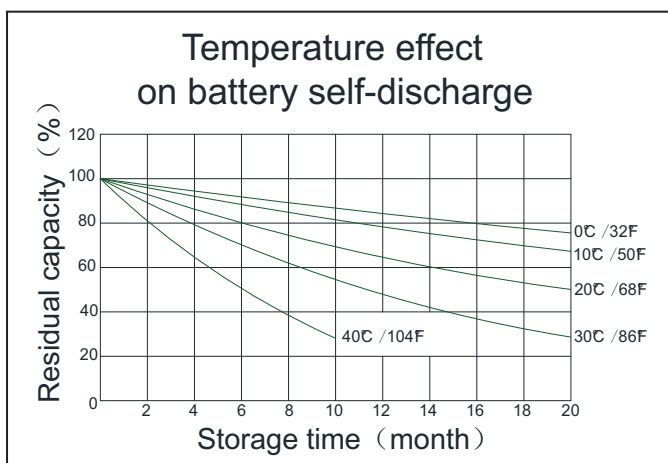
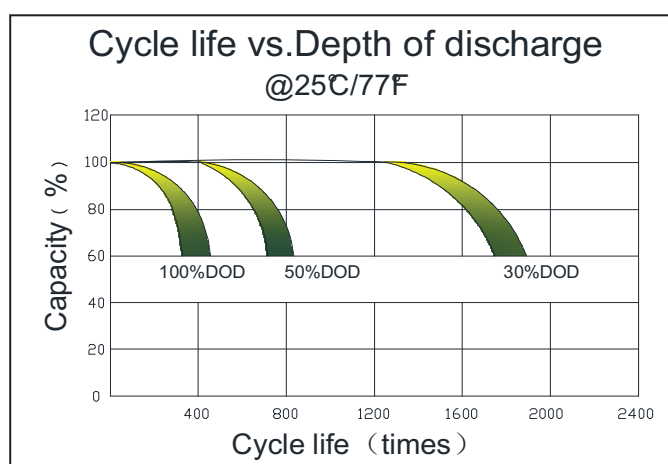
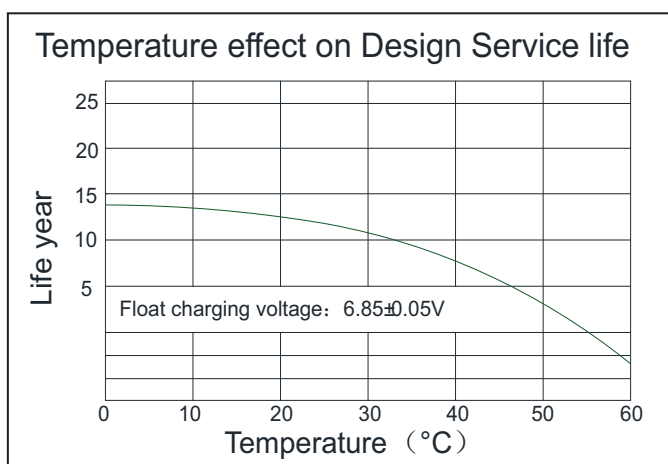
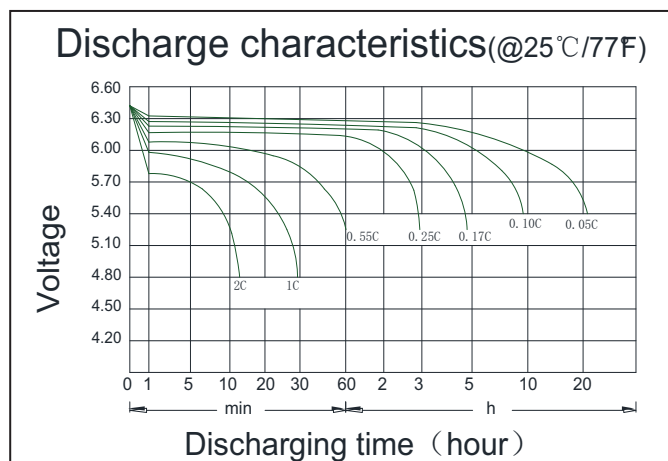
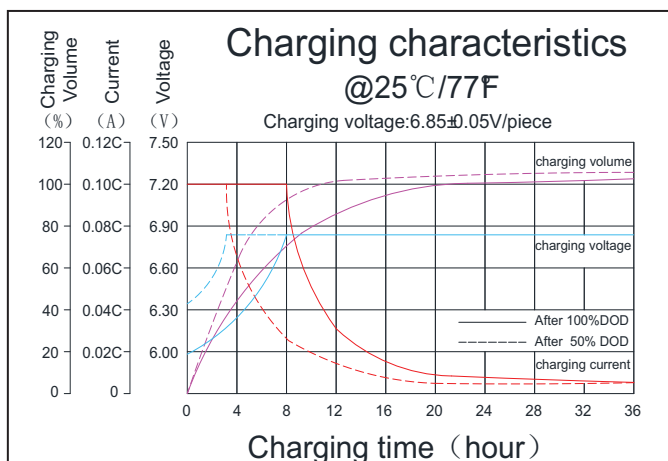
| F.V/Time | 15min | 30min | 45min | 1h    | 2h    | 3h   | 5h   | 8h   | 10h   | 20h   | 100h |
|----------|-------|-------|-------|-------|-------|------|------|------|-------|-------|------|
| 1.60V    | 489.1 | 312.4 | 229.5 | 211.3 | 134.1 | 94.2 | 63.8 | 42.2 | 37.62 | 20.14 | 4.56 |
| 1.67V    | 480.3 | 306.7 | 225.3 | 207.1 | 131.5 | 92.3 | 62.7 | 41.4 | 36.86 | 19.76 | 4.48 |
| 1.70V    | 471.2 | 301.0 | 221.2 | 203.3 | 129.2 | 90.8 | 61.6 | 40.7 | 36.10 | 19.38 | 4.37 |
| 1.75V    | 462.5 | 295.3 | 217.0 | 199.5 | 126.5 | 88.9 | 60.4 | 39.9 | 35.72 | 19.00 | 4.29 |
| 1.80V    | 444.6 | 283.9 | 208.6 | 191.9 | 121.6 | 85.5 | 58.1 | 38.4 | 34.58 | 18.81 | 4.22 |

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    | 941.3 | 601.2 | 441.9 | 405.5 | 257.6 | 180.9 | 123.1 | 80.9 | 72.6 | 39.3 | 8.78 |
| 1.67V    | 924.2 | 590.1 | 433.6 | 398.2 | 253.1 | 177.8 | 120.8 | 79.8 | 71.1 | 38.5 | 8.59 |
| 1.70V    | 907.1 | 579.1 | 425.6 | 390.6 | 248.5 | 174.4 | 118.6 | 78.3 | 69.9 | 38.2 | 8.44 |
| 1.75V    | 890.0 | 568.1 | 417.6 | 383.4 | 243.6 | 171.0 | 116.3 | 76.8 | 68.4 | 37.6 | 8.28 |
| 1.80V    | 855.8 | 546.4 | 401.7 | 368.6 | 234.5 | 164.5 | 112.1 | 73.7 | 65.7 | 36.5 | 8.13 |

**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 **CBB** 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-Rubber aging resister | 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 |

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