

## GENERAL FEATURES

- Optimized plate achieve low IR
- 30% increased power output at 15 min
- Deep Discharge Recovery
- High Power Density
- Wide operating temperature

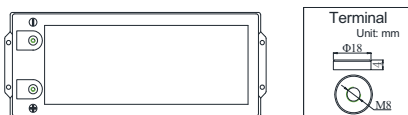
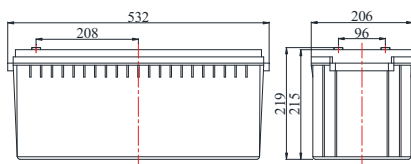
## APPLICATIONS

- UPS & EPS
- Emergency lighting Systems
- Medical Equipment
- The office computer
- Cable TV Systems
- Alarm Systems



## DIMENSIONS & WEIGHT

|                  |         |
|------------------|---------|
| Length(mm)       | 532±1   |
| Width(mm)        | 206±1   |
| Height(mm)       | 215±1   |
| Total Height(mm) | 219±1   |
| Weight(kg)       | 60.5±3% |



## COMPLIED STANDARDS

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

## TECHNICAL SPECIFICATIONS



|  |                            |  |
|--|----------------------------|--|
| Nominal Voltage                                    |                            | 12V(6 cells per unit)  |
| Design Floating Life @25°C                         |                            | 12 Years   |
| Watts/cell@25°C(@15min,10.02V)                     |                            | 680W   |
| Capacity @25°C                                     | 10 hour rate (17.0A,10.8V) | 170Ah  |
|  | 3 hour rate (49.5A,10.5V)  | 148.5Ah  |
|  | 1 hour rate (129.1A,9.6V)  | 129.1Ah  |
| Internal Resistance                                | Full Charged Battery@25°C  | ≤3.3mΩ   |
| Ambient Temperature                                | Discharge                  | -20°C~50°C   |
|  | Charge                     | -20°C~50°C   |
|  | Storage                    | -20°C~50°C   |
| Max.Discharge Current@25°C                         |                            | 2550A(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 42.5A<br>Voltage 13.6-13.8V |
|  | Cycle Use                  | Initial Charging Current Less than 42.5A<br>Voltage 14.4-14.9V |

## BATTERY DISCHARGE TABEL

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

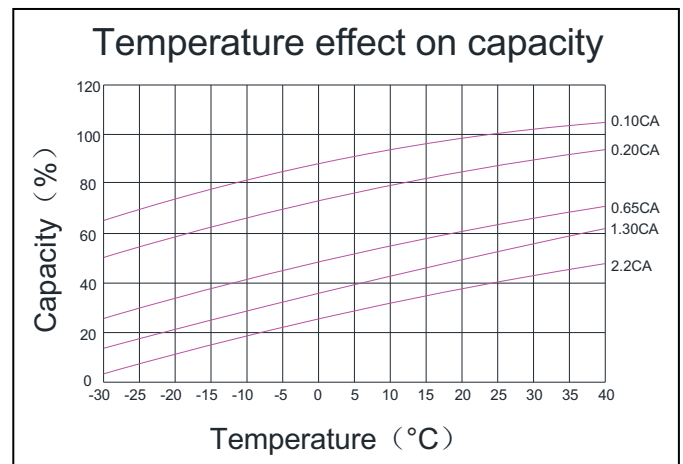
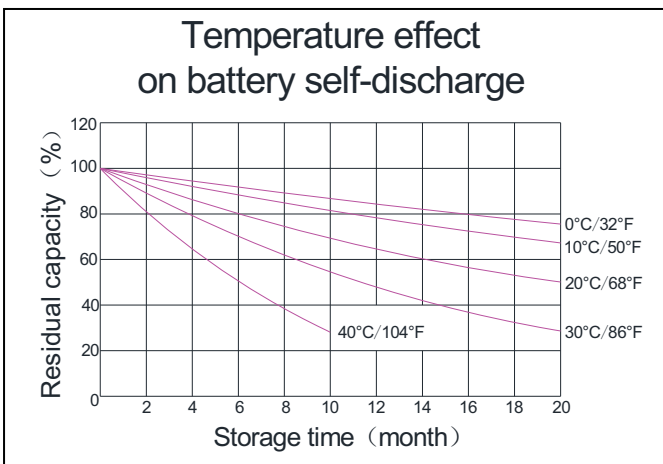
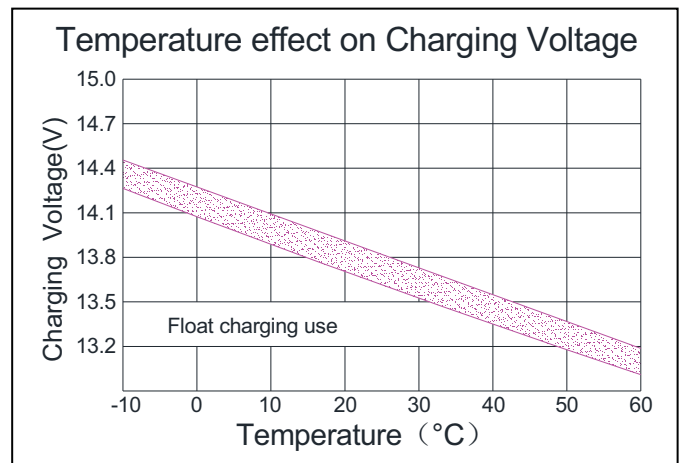
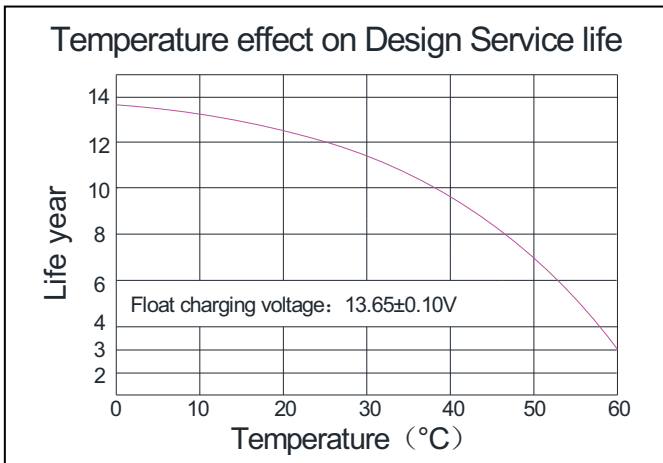
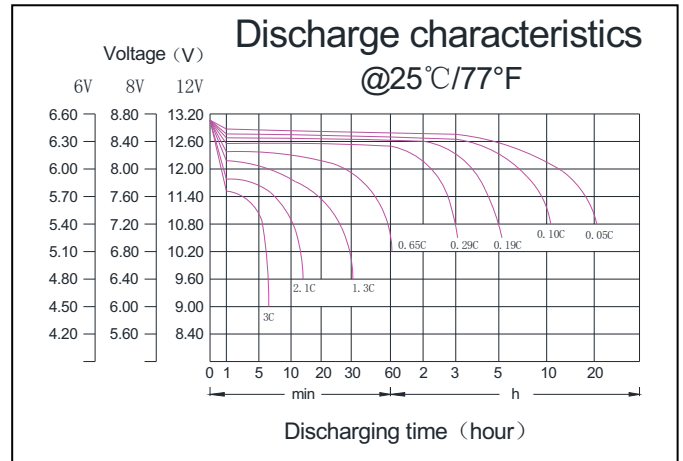
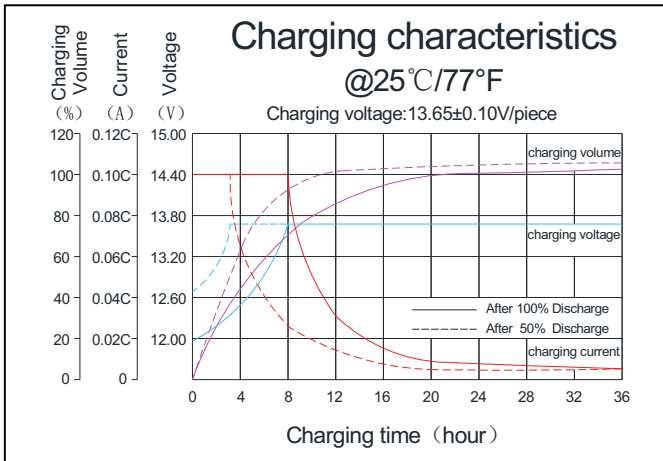
| F.V/Time | 10min | 15min | 20min | 25min | 30min | 45min | 60min | 90min | 120min | 180min | 600min |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 1.60V    | 897.4 | 691.8 | 573.2 | 487.3 | 434.3 | 327.3 | 268.0 | 189.7 | 148.8  | 102.5  | 38.6   |
| 1.67V    | 881.3 | 680.0 | 566.0 | 478.0 | 426.2 | 321.2 | 262.9 | 186.3 | 146.1  | 101.5  | 38.1   |
| 1.70V    | 864.9 | 667.1 | 555.6 | 469.4 | 418.4 | 315.3 | 257.8 | 182.5 | 143.0  | 101.1  | 37.7   |
| 1.75V    | 848.7 | 654.4 | 538.0 | 460.7 | 410.7 | 309.4 | 253.3 | 179.1 | 141.3  | 100.2  | 37.0   |
| 1.80V    | 830.8 | 635.8 | 517.4 | 449.0 | 396.9 | 297.6 | 241.6 | 173.6 | 139.4  | 98.8   | 36.6   |

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

| F.V/Time | 10min | 15min | 20min | 25min | 30min | 45min | 60min | 90min | 120min | 180min | 600min |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 1.60V    | 475.1 | 364.8 | 302.9 | 263.6 | 223.2 | 165.2 | 129.1 | 93.2  | 74.3   | 52.3   | 18.5   |
| 1.67V    | 466.5 | 358.1 | 299.3 | 258.8 | 218.9 | 162.2 | 127.9 | 91.5  | 73.0   | 51.4   | 18.1   |
| 1.70V    | 457.6 | 351.7 | 293.7 | 254.1 | 214.8 | 159.2 | 125.9 | 89.7  | 71.4   | 50.4   | 17.9   |
| 1.75V    | 449.0 | 345.0 | 284.4 | 249.3 | 210.8 | 156.2 | 123.9 | 88.0  | 70.1   | 49.5   | 17.4   |
| 1.80V    | 441.8 | 338.3 | 276.4 | 239.7 | 206.7 | 154.5 | 121.7 | 85.5  | 68.2   | 48.0   | 17.0   |

**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-Rubbeand aging resistancer | Female Copper Insert M8(torque:1 0~12N.m | Advanced AGM separator for high pressure cell design | Dilute high purity sulphuric acid | Two layers epoxy resin seal |

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