

### GENERAL FEATURES

- True Deep cycle construction
- Thick plate with high Tin low Calcium alloy
- High Reliability and Good Quality
- Deep Discharge Recovery
- High Power Density
- Long float and cyclic service life

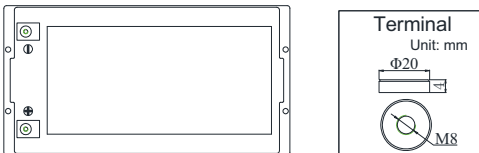
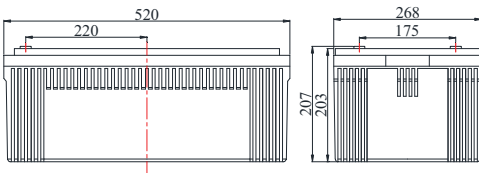
### APPLICATIONS

- Golf/Utility Vehicles
- Floor Machines
- Aerial Work Platform
- Recreational Vehicles(RV)
- Medical Mobility/Marine Vessels
- Neighborhood Electric Vehicles(NEV)
- Renewable Energy Systems



### DIMENSIONS & WEIGHT

|                  |         |
|------------------|---------|
| Length(mm)       | 520±1   |
| Width(mm)        | 268±1   |
| Height(mm)       | 203±1   |
| Total Height(mm) | 207±1   |
| Weight(kg)       | 71.0±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   |
| Nominal Capacity @25°C(20 hour rate@12.00A,10.50V) |                             | 240Ah  |
| Capacity @25°C                                     | 10 hour rate (21.84A,10.8V) | 218.4Ah  |
|  | 5 hour rate (38.20A,10.5V)  | 191.0Ah  |
|  | 1 hour rate (133.4A,9.6V)   | 133.4Ah  |
| 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                         |                             | 2400A(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 43.2A<br>Voltage 13.6-13.8V |
|  | Cycle Use                   | Initial Charging Current Less than 43.2A<br>Voltage 14.4-14.9V |

### BATTERY DISCHARGE TABEL

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

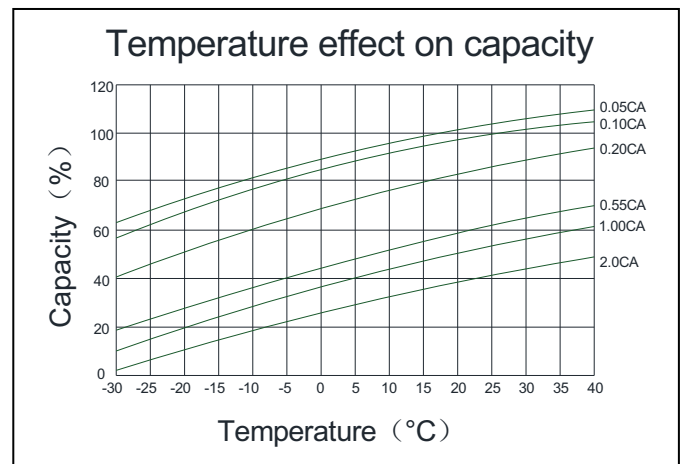
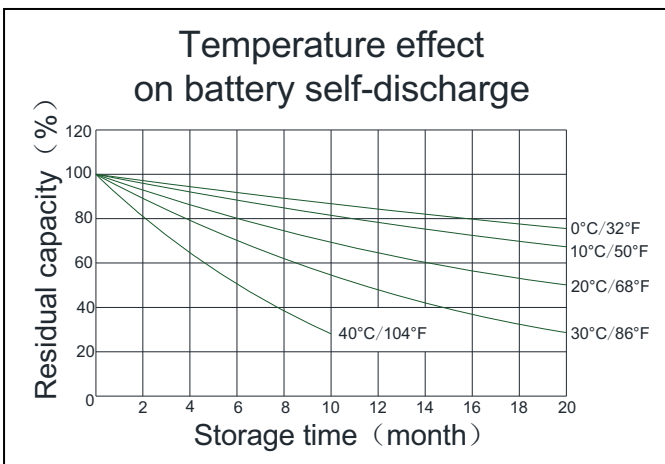
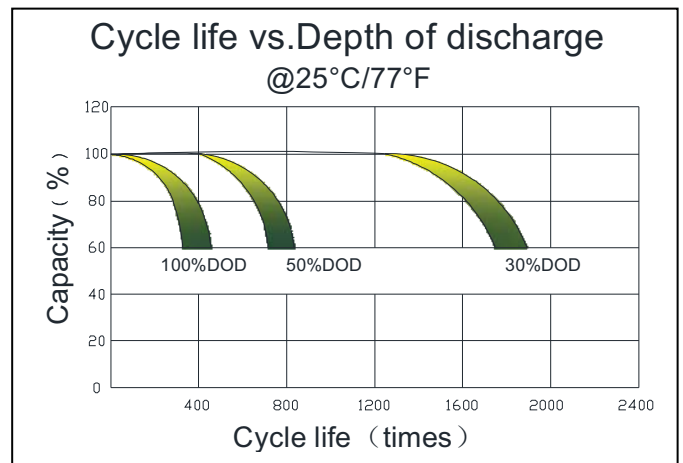
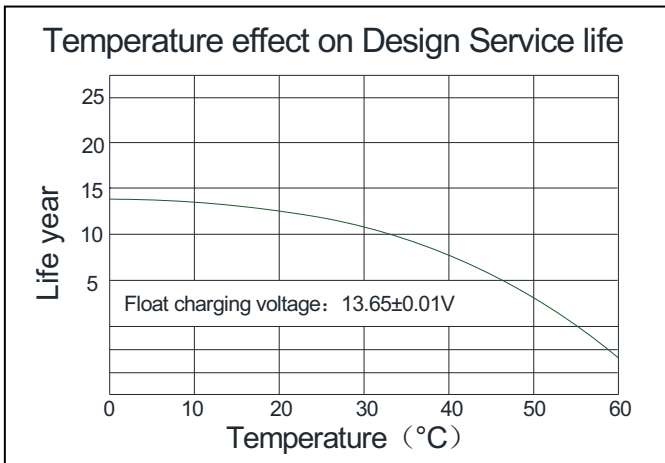
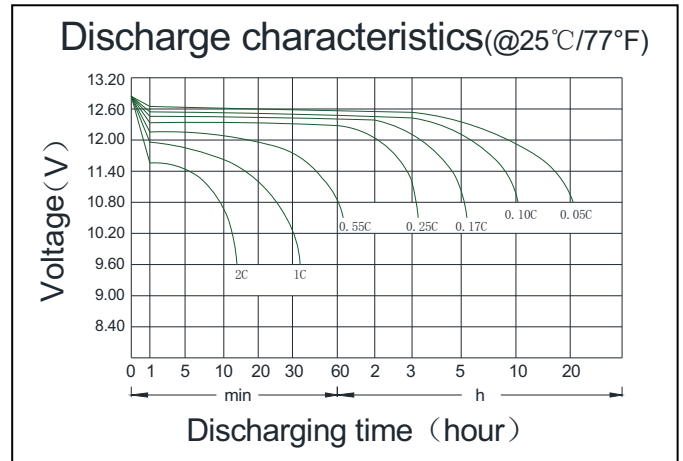
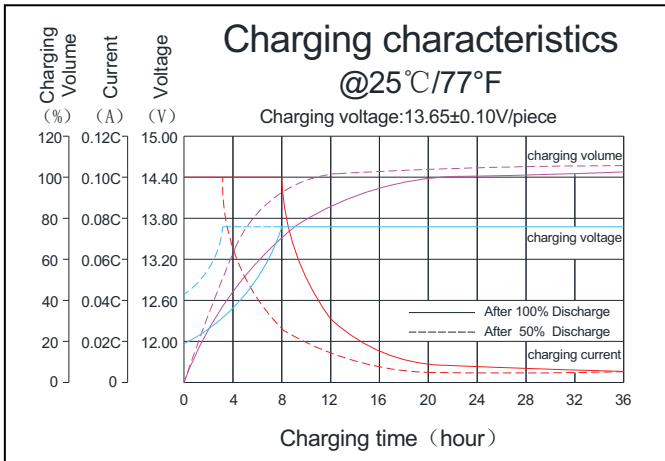
| F.V/Time | 15min | 30min | 45min | 1h    | 2h   | 3h   | 5h   | 8h   | 10h   | 20h   | 100h |
|----------|-------|-------|-------|-------|------|------|------|------|-------|-------|------|
| 1.60V    | 308.9 | 197.3 | 145.0 | 133.4 | 84.7 | 59.5 | 40.3 | 26.6 | 23.76 | 12.72 | 2.88 |
| 1.67V    | 303.4 | 193.7 | 142.3 | 130.8 | 83.0 | 58.3 | 39.6 | 26.2 | 23.28 | 12.48 | 2.83 |
| 1.70V    | 297.6 | 190.1 | 139.7 | 128.4 | 81.6 | 57.4 | 38.9 | 25.7 | 22.80 | 12.24 | 2.76 |
| 1.75V    | 292.1 | 186.5 | 137.0 | 126.0 | 79.9 | 56.2 | 38.2 | 25.2 | 22.56 | 12.00 | 2.71 |
| 1.80V    | 280.8 | 179.3 | 131.8 | 121.2 | 76.8 | 54.0 | 36.7 | 24.2 | 21.84 | 11.88 | 2.66 |

#### 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    | 594.5 | 379.7 | 279.1 | 256.1 | 162.7 | 114.2 | 77.8 | 51.1 | 45.8 | 24.8 | 5.54 |
| 1.67V    | 583.7 | 372.7 | 273.8 | 251.5 | 159.8 | 112.3 | 76.3 | 50.4 | 44.9 | 24.3 | 5.42 |
| 1.70V    | 572.9 | 365.8 | 268.8 | 246.7 | 157.0 | 110.2 | 74.9 | 49.4 | 44.2 | 24.1 | 5.33 |
| 1.75V    | 562.1 | 358.8 | 263.8 | 242.2 | 153.8 | 108.0 | 73.4 | 48.5 | 43.2 | 23.8 | 5.23 |
| 1.80V    | 540.5 | 345.1 | 253.7 | 232.8 | 148.1 | 103.9 | 70.8 | 46.6 | 41.5 | 23.0 | 5.14 |

**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 and 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 |