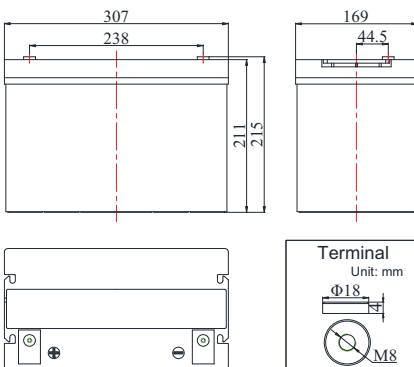


### GENERAL FEATURES

- Environmentally friendly
- Able to operate at 60°C
- Integrated design to ensure the best uniformity and reliability
- Long life and high stability under high temp. environment (no air-con needed)
- Use super-C additives: Deep discharge recovery capability

### DIMENSIONS & WEIGHT

|                  |         |
|------------------|---------|
| Length(mm)       | 307±1   |
| Width(mm)        | 169±1   |
| Height(mm)       | 211±1   |
| Total Height(mm) | 215±1   |
| Weight(kg)       | 30.3±3% |



### COMPLIED STANDARDS

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

### APPLICATIONS

- Aerial Work Platform(AWP)/Access
- Material Handling
- Golf/Utility Carts/Vehicle
- Electric Boats/NEV
- Wheel chair&Industrial
- Remote Monitoring&Instrumentation
- Medical Mobility & Marine Vessels
- Renewable Energy(Solar,Wind and Hydro)



### TECHNICAL SPECIFICATIONS



|  |                           |  |
|--|---------------------------|--|
| Nominal Voltage                                    |                           | 12V(6 cells per unit)  |
| Design Floating Life @25°C                         |                           | 15 Years   |
| Nominal Capacity @25°C(20 hour rate@5.00A,10.50V)  |                           | 100Ah  |
| Capacity @25°C                                     | 10 hour rate (9.1A,10.8V) | 91.0Ah   |
|  | 5 hour rate (15.9A,10.5V) | 79.5Ah   |
|  | 1 hour rate (55.6A,9.6V)  | 55.6Ah   |
| Internal Resistance                                | Full Charged Battery@25°C | ≤6.5mΩ   |
| Ambient Temperature                                | Discharge                 | -30°C~60°C   |
|  | Charge                    | -30°C~60°C   |
|  | Storage                   | -30°C~60°C   |
| Max.Discharge Current@25°C                         |                           | 1000A(5s)  |
| Capacity affected by Temperature (10 hr Capacity ) | 40°C                      | 108%   |
|  | 25°C                      | 100%   |
|  | 0°C                       | 90%  |
|  | -15°C                     | 70%  |
| Self-Discharge@25°C per Month                      |                           | 3%   |
| Charge (Constant Voltage) @25°C                    | Standby Use               | Initial Charging Current Less than 22.5A<br>Voltage 13.6-13.8V |
|  | Cycle Use                 | Initial Charging Current Less than 22.5A<br>Voltage 14.4-14.9V |

### BATTERY DISCHARGE TABEL

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

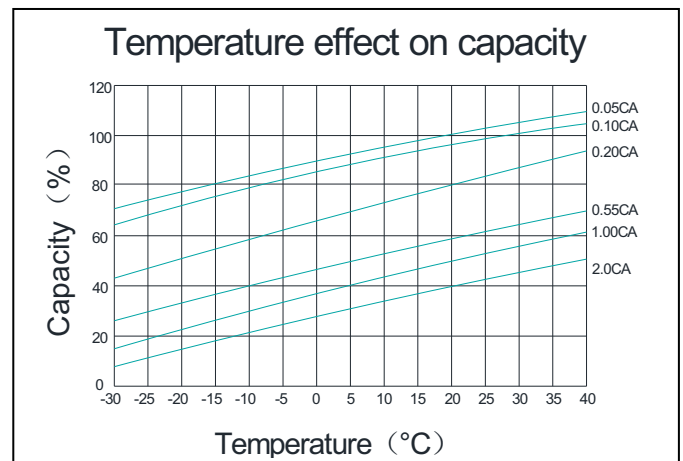
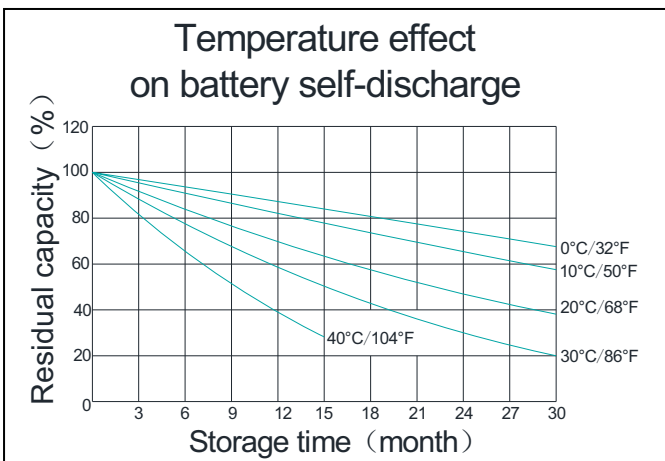
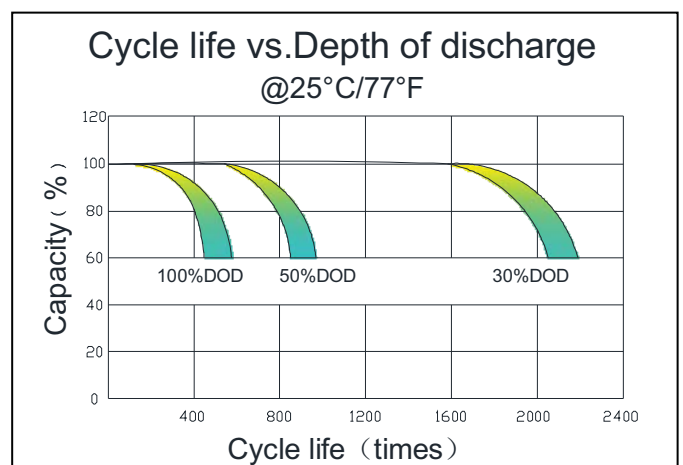
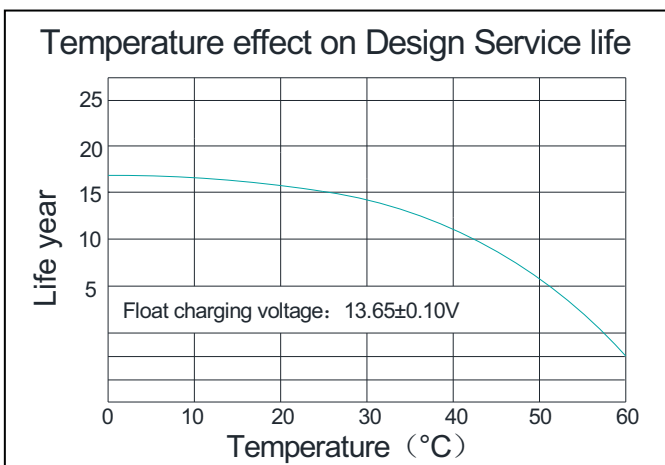
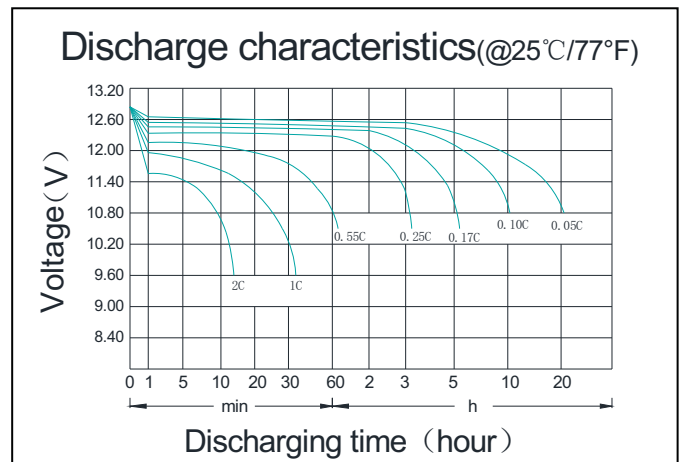
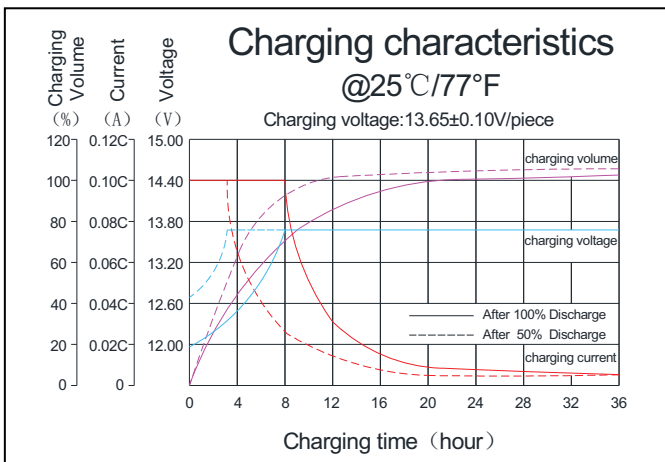
| F.V/Time | 15min | 30min | 45min | 1h   | 2h   | 3h   | 5h   | 8h   | 10h  | 20h  | 100h |
|----------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.60V    | 128.7 | 82.2  | 60.4  | 55.6 | 35.3 | 24.8 | 16.8 | 11.1 | 9.90 | 5.30 | 1.20 |
| 1.67V    | 126.4 | 80.7  | 59.3  | 54.5 | 34.6 | 24.3 | 16.5 | 10.9 | 9.70 | 5.20 | 1.18 |
| 1.70V    | 124.0 | 79.2  | 58.2  | 53.5 | 34.0 | 23.9 | 16.2 | 10.7 | 9.50 | 5.10 | 1.15 |
| 1.75V    | 121.7 | 77.7  | 57.1  | 52.5 | 33.3 | 23.4 | 15.9 | 10.5 | 9.40 | 5.00 | 1.13 |
| 1.80V    | 117.0 | 74.7  | 54.9  | 50.5 | 32.0 | 22.5 | 15.3 | 10.1 | 9.10 | 4.95 | 1.11 |

#### 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    | 247.7 | 158.2 | 116.3 | 106.7 | 67.8 | 47.6 | 32.4 | 21.3 | 19.1 | 10.3 | 2.31 |
| 1.67V    | 243.2 | 155.3 | 114.1 | 104.8 | 66.6 | 46.8 | 31.8 | 21.0 | 18.7 | 10.1 | 2.26 |
| 1.70V    | 238.7 | 152.4 | 112.0 | 102.8 | 65.4 | 45.9 | 31.2 | 20.6 | 18.4 | 10.1 | 2.22 |
| 1.75V    | 234.2 | 149.5 | 109.9 | 100.9 | 64.1 | 45.0 | 30.6 | 20.2 | 18.0 | 9.9  | 2.18 |
| 1.80V    | 225.2 | 143.8 | 105.7 | 97.0  | 61.7 | 43.3 | 29.5 | 19.4 | 17.3 | 9.6  | 2.14 |

**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-Rubbeand aging resistanacer | Female Copper Insert M8(torque:7 ~9N.m) | Advanced AGM separator for high pressure cell design | Dilute high purity sulphuric acid with fumed Silica gel | Two layers epoxy resin seal |