

### 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

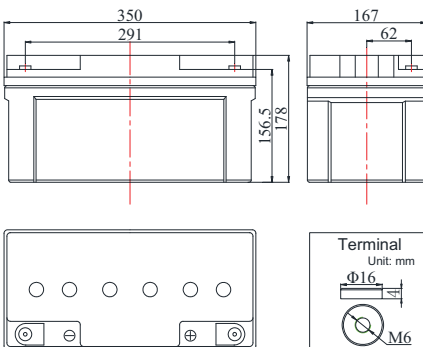
### APPLICATIONS

- 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)       | 350±1   |
| Width(mm)        | 167±1   |
| Height(mm)       | 178±1   |
| Total Height(mm) | 178±1   |
| Weight(kg)       | 23.3±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@3.50A,10.50V)  |                            | 70Ah  |
| Capacity @25°C                                     | 10 hour rate (6.37A,10.8V) | 63.7Ah  |
|  | 5 hour rate (11.1A,10.5V)  | 55.5Ah  |
|  | 1 hour rate (38.9A,9.6V)   | 38.9Ah  |
| Internal Resistance                                | Full Charged Battery@25°C  | ≤8.3mΩ  |
| Ambient Temperature                                | Discharge                  | -20°C~50°C  |
|  | Charge                     | -20°C~50°C  |
|  | Storage                    | -20°C~50°C  |
| Max.Discharge Current@25°C                         |                            | 700A(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 15.75A<br>Voltage 13.6-13.8V |
|  | Cycle Use                  | Initial Charging Current Less than 15.75A<br>Voltage 14.4-14.9V |

### BATTERY DISCHARGE TABLE

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

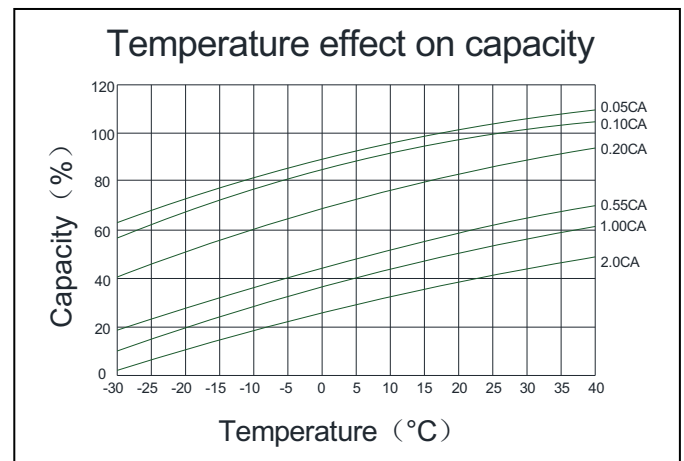
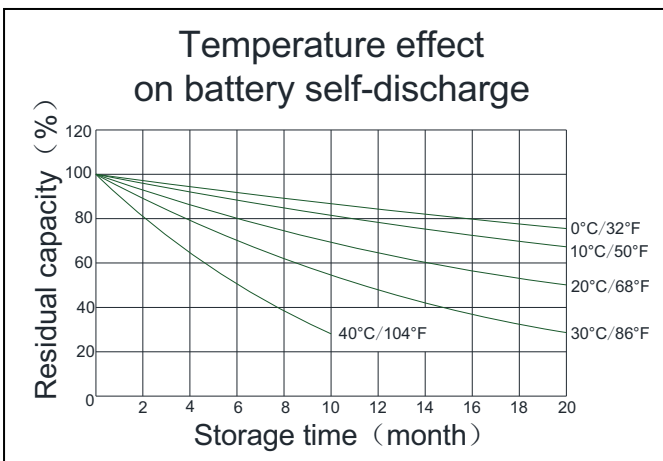
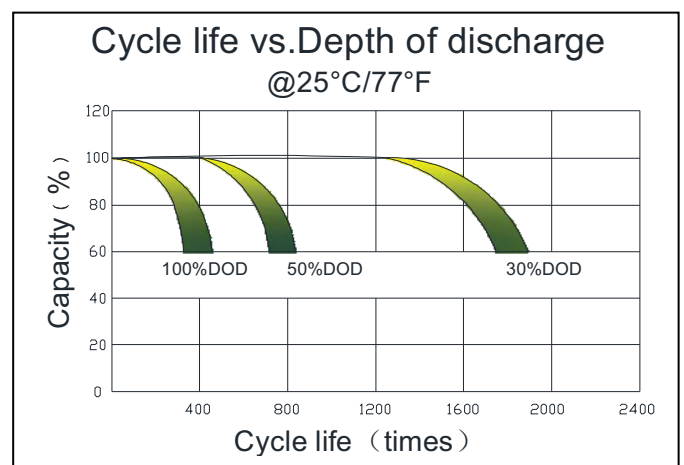
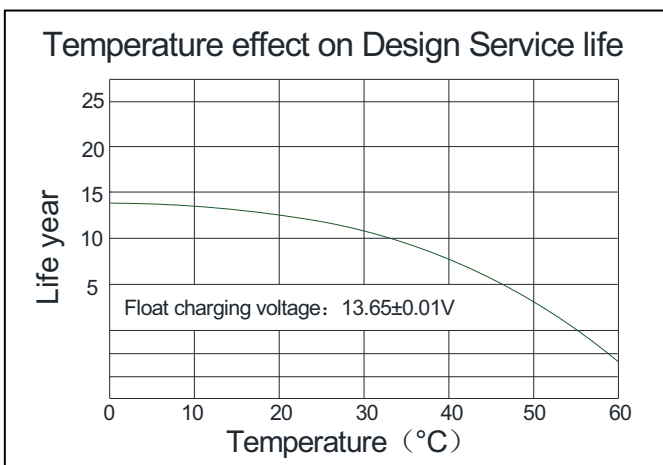
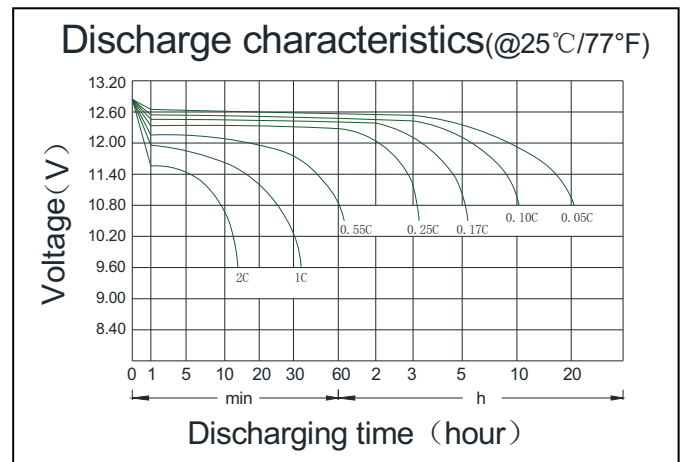
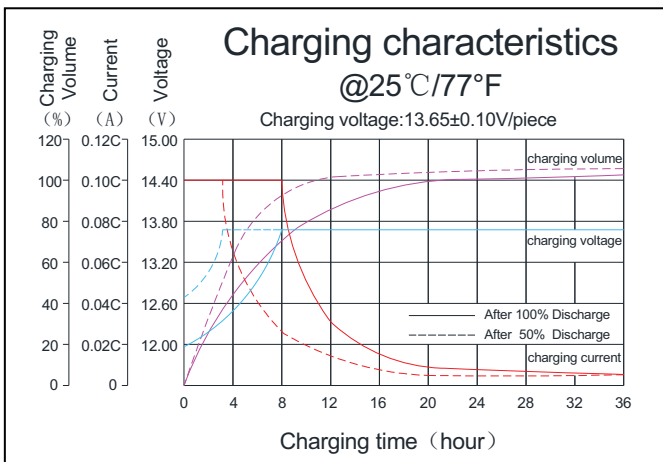
| F.V/Time | 15min | 30min | 45min | 1h   | 2h   | 3h   | 5h   | 8h  | 10h  | 20h  | 100h |
|----------|-------|-------|-------|------|------|------|------|-----|------|------|------|
| 1.60V    | 90.1  | 57.5  | 42.3  | 38.9 | 24.7 | 17.4 | 11.8 | 7.8 | 6.93 | 3.71 | 0.84 |
| 1.67V    | 88.5  | 56.5  | 41.5  | 38.2 | 24.2 | 17.0 | 11.6 | 7.6 | 6.79 | 3.64 | 0.83 |
| 1.70V    | 86.8  | 55.4  | 40.7  | 37.5 | 23.8 | 16.7 | 11.3 | 7.5 | 6.65 | 3.57 | 0.81 |
| 1.75V    | 85.2  | 54.4  | 40.0  | 36.8 | 23.3 | 16.4 | 11.1 | 7.4 | 6.58 | 3.50 | 0.79 |
| 1.80V    | 81.9  | 52.3  | 38.4  | 35.4 | 22.4 | 15.8 | 10.7 | 7.1 | 6.37 | 3.47 | 0.78 |

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    | 173.4 | 110.7 | 81.4  | 74.7 | 47.5 | 33.3 | 22.7 | 14.9 | 13.4 | 7.2 | 1.62 |
| 1.67V    | 170.2 | 108.7 | 79.9  | 73.4 | 46.6 | 32.8 | 22.3 | 14.7 | 13.1 | 7.1 | 1.58 |
| 1.70V    | 167.1 | 106.7 | 78.4  | 72.0 | 45.8 | 32.1 | 21.8 | 14.4 | 12.9 | 7.0 | 1.55 |
| 1.75V    | 163.9 | 104.7 | 76.9  | 70.6 | 44.9 | 31.5 | 21.4 | 14.1 | 12.6 | 6.9 | 1.53 |
| 1.80V    | 157.6 | 100.7 | 74.0  | 67.9 | 43.2 | 30.3 | 20.7 | 13.6 | 12.1 | 6.7 | 1.50 |

**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 M6(torque:4~6N.m) | Advanced AGM separator for high pressure cell design | Dilute high purity sulphuric acid | Two layers epoxy resin seal |

**CBB Battery Technology Co.,Ltd.**

RM504,55 Hanxing Zhong Road,Zhongcun, Panyu,Guangzhou 511495 China  
 Tel: +86-020-84888946 Fax: +86-020-62824569

# Koyama®

www.cbb-battery.com