

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

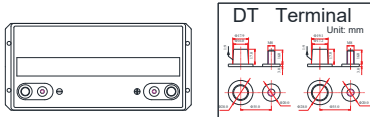
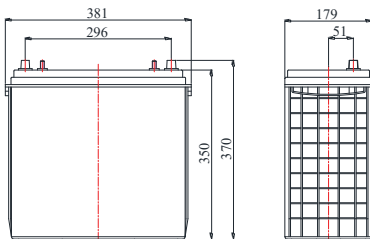
APPLICATIONS

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



DIMENSIONS & WEIGHT

| | |
|------------------|---------|
| Length(mm) | 381±1 |
| Width(mm) | 179±1 |
| Height(mm) | 350±1 |
| Total Height(mm) | 370±1 |
| Weight(kg) | 61.5±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 |
| Nominal Capacity @25°C (20 hour rate@10.75A,10.50V) | | 215Ah |
| Capacity @25°C | 10 hour rate (19.57A,10.8V) | 195.7Ah |
| | 5 hour rate (34.20A,10.5V) | 171.0Ah |
| | 1 hour rate (119.5A,9.6V) | 119.5Ah |
| Internal Resistance | Full Charged Battery@25°C | ≤3.5mΩ |
| Ambient Temperature | Discharge | -20°C~50°C |
| | Charge | -20°C~50°C |
| | Storage | -20°C~50°C |
| Max.Discharge Current@25°C | | 2100A(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 38.7A Voltage 13.6-13.8V |
| | Cycle Use | Initial Charging Current Less than 38.7A Voltage 14.4-14.9V |

BATTERY DISCHARGE TABLE

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

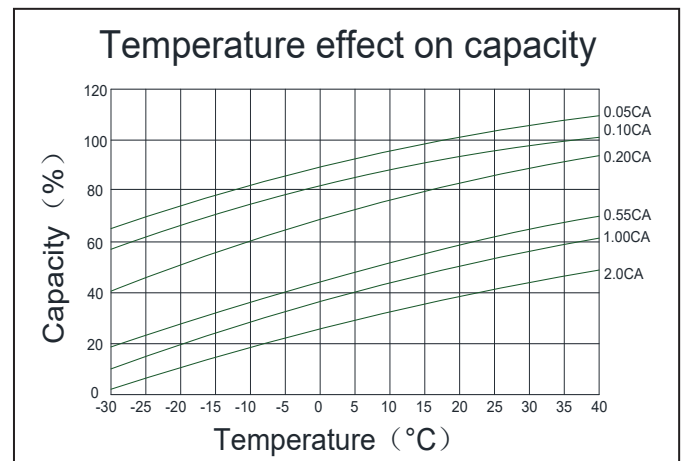
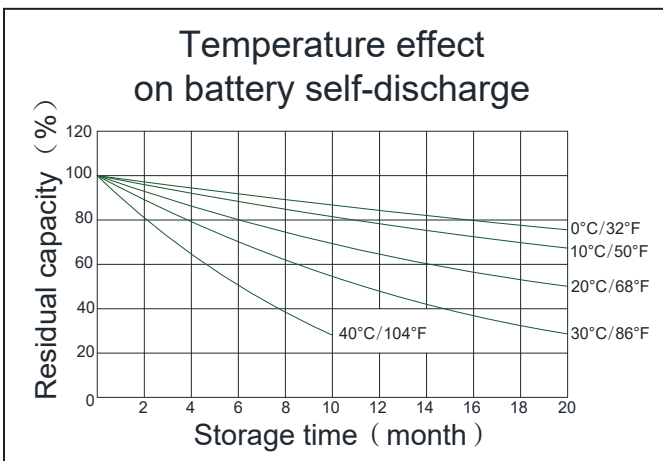
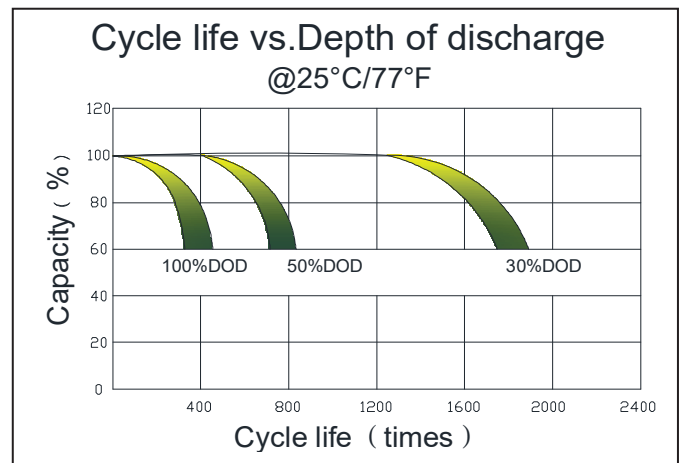
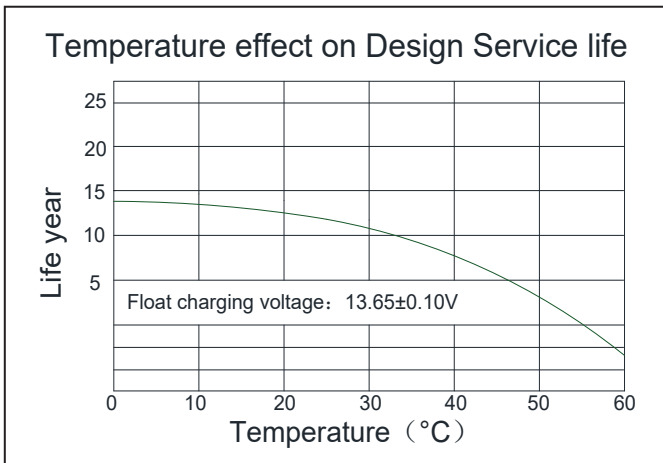
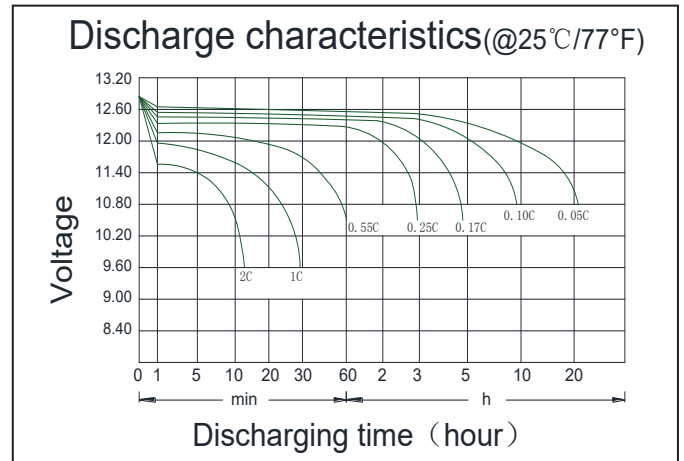
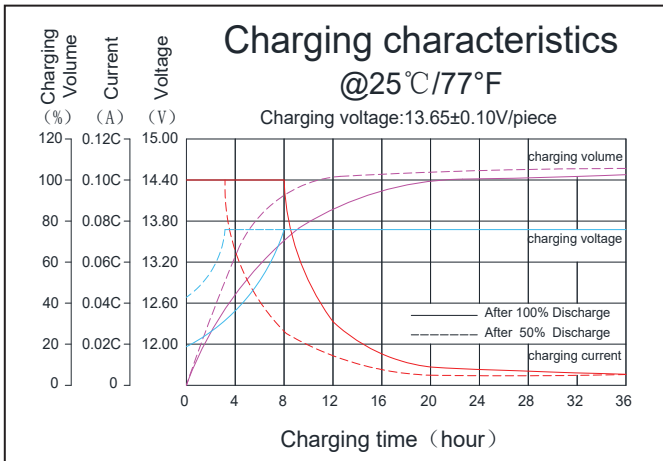
| F.V/Time | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h | 100h |
|----------|-------|-------|-------|-------|------|------|------|------|-------|-------|------|
| 1.60V | 276.7 | 176.7 | 129.9 | 119.5 | 75.9 | 53.3 | 36.1 | 23.9 | 21.29 | 11.40 | 2.58 |
| 1.67V | 271.8 | 173.5 | 127.5 | 117.2 | 74.4 | 52.2 | 35.5 | 23.4 | 20.86 | 11.18 | 2.54 |
| 1.70V | 266.6 | 170.3 | 125.1 | 115.0 | 73.1 | 51.4 | 34.8 | 23.0 | 20.43 | 10.97 | 2.47 |
| 1.75V | 261.7 | 167.1 | 122.8 | 112.9 | 71.6 | 50.3 | 34.2 | 22.6 | 20.21 | 10.75 | 2.43 |
| 1.80V | 251.6 | 160.6 | 118.0 | 108.6 | 68.8 | 48.4 | 32.9 | 21.7 | 19.57 | 10.64 | 2.39 |

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 | 532.6 | 340.1 | 250.0 | 229.4 | 145.8 | 102.3 | 69.7 | 45.8 | 41.1 | 22.2 | 4.97 |
| 1.67V | 522.9 | 333.9 | 245.3 | 225.3 | 143.2 | 100.6 | 68.4 | 45.2 | 40.2 | 21.8 | 4.86 |
| 1.70V | 513.2 | 327.7 | 240.8 | 221.0 | 140.6 | 98.7 | 67.1 | 44.3 | 39.6 | 21.6 | 4.77 |
| 1.75V | 503.5 | 321.4 | 236.3 | 216.9 | 137.8 | 96.8 | 65.8 | 43.4 | 38.7 | 21.3 | 4.69 |
| 1.80V | 484.2 | 309.2 | 227.3 | 208.6 | 132.7 | 93.1 | 63.4 | 41.7 | 37.2 | 20.6 | 4.60 |

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 DT(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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