

GENERAL FEATURES

- Environmentally friendly
- Wide operating temperature range
- Nano gel electrolyte and long Floating service Life
- Can be used at vertical or horizontal orientation
- High Power Density
- Low self discharge

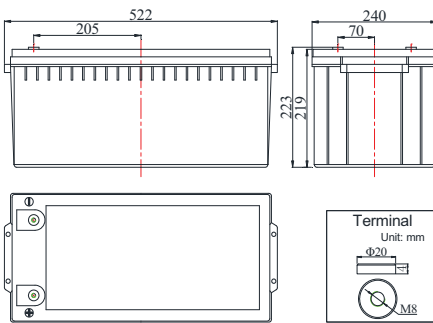
APPLICATIONS

- Telecom Control Equipments
- UPS systems
- Communication Equipments
- Medical Equipments
- Emergency Power Systems
- Security Systems
- Cable TV
- Railway System



DIMENSIONS & WEIGHT

| | |
|------------------|---------|
| Length(mm) | 522±1 |
| Width(mm) | 240±1 |
| Height(mm) | 219±1 |
| Total Height(mm) | 223±1 |
| Weight(kg) | 60.7±3% |



COMPLIED STANDARDS

| | |
|-----------------|--------------|
| IEC 60896-21/22 | JIS C8704 |
| YD/T1360 | 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(10 hour rate@22.00A,10.80V) | | 220Ah |
| Capacity @25°C | 20 hour rate (11.77A,10.5V) | 235.4Ah |
| | 5 hour rate (38.7A,10.5V) | 193.5Ah |
| | 1 hour rate (140.4A,9.6V) | 140.4Ah |
| Internal Resistance | Full Charged Battery@25°C | ≤3.3mΩ |
| Ambient Temperature | Discharge | -30°C~60°C |
| | Charge | -30°C~60°C |
| | Storage | -30°C~60°C |
| Max.Discharge Current@25°C | | 2000A(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 44A Voltage 13.6-13.8V |
| | Cycle Use | Initial Charging Current Less than 44A Voltage 14.4-14.9V |

BATTERY DISCHARGE TABEL

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

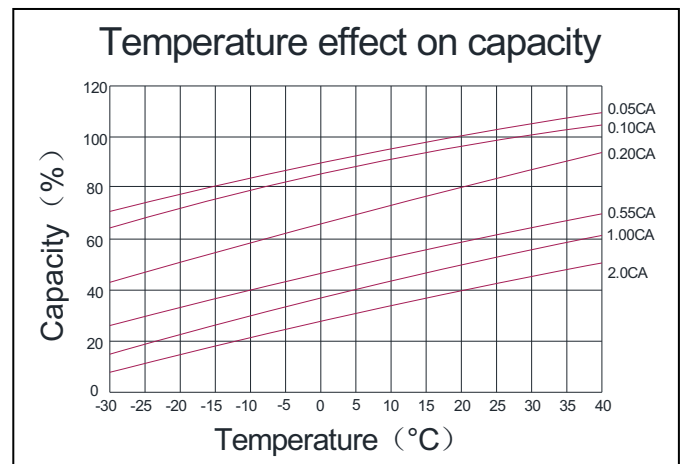
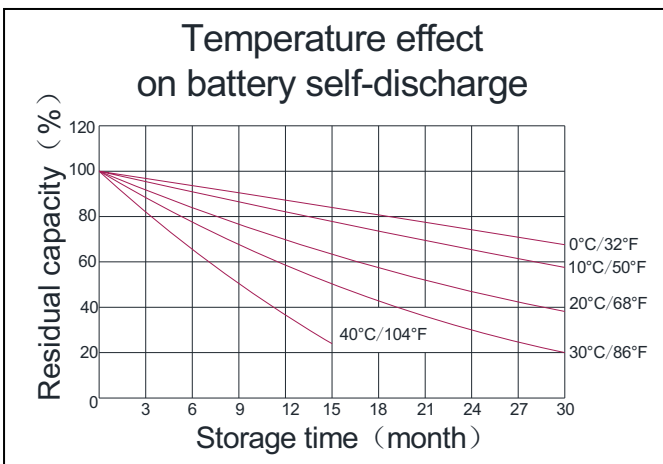
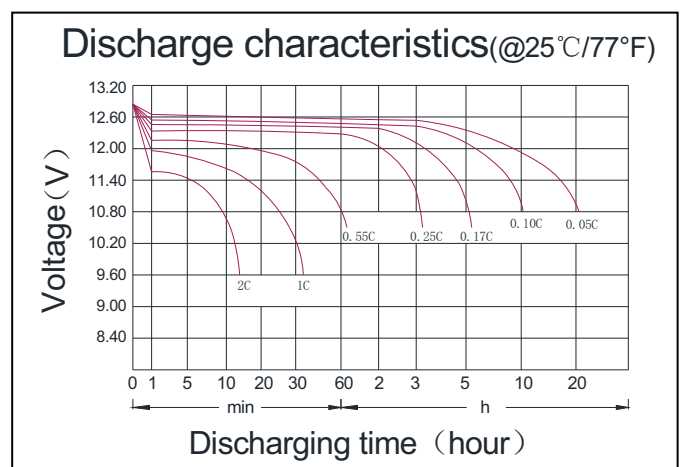
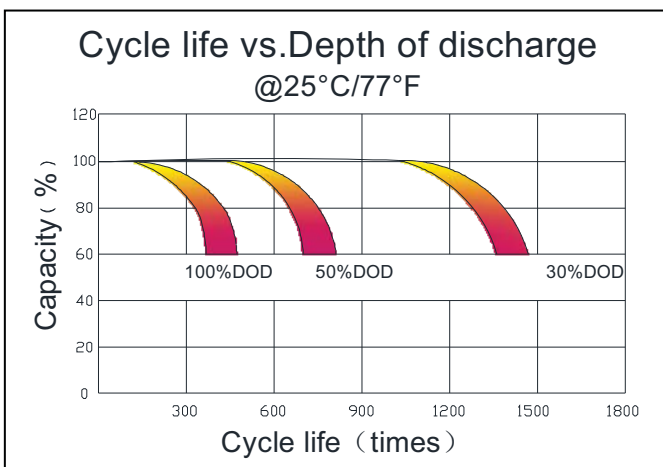
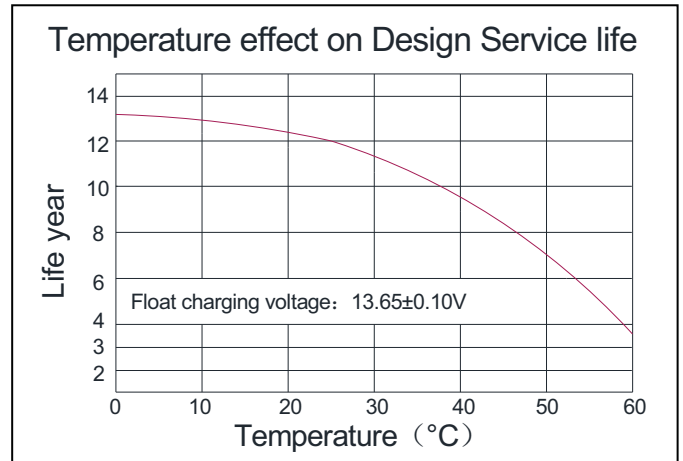
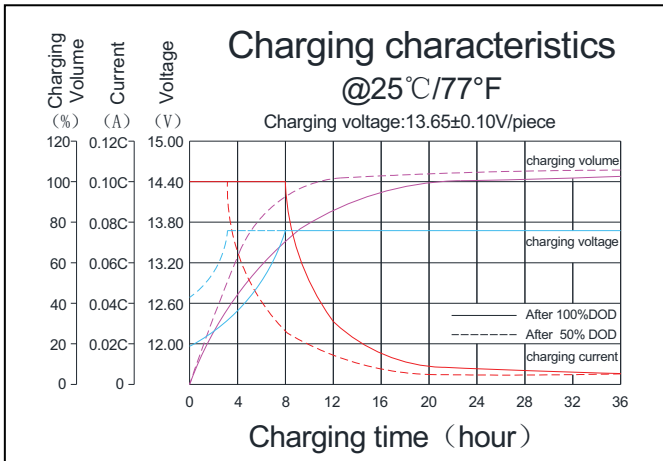
| F.V/Time | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 6h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|-------|
| 1.60V | 397.1 | 233.9 | 177.1 | 140.4 | 82.5 | 60.7 | 40.9 | 35.6 | 27.9 | 23.1 | 12.21 |
| 1.67V | 375.1 | 221.5 | 170.3 | 136.2 | 79.9 | 58.7 | 40.3 | 35.0 | 27.7 | 22.7 | 12.10 |
| 1.70V | 352.2 | 215.2 | 164.1 | 130.9 | 77.7 | 57.2 | 39.4 | 34.3 | 27.3 | 22.4 | 11.92 |
| 1.75V | 330.0 | 205.7 | 156.9 | 125.6 | 75.7 | 55.9 | 38.7 | 33.7 | 26.8 | 22.2 | 11.77 |
| 1.80V | 309.5 | 198.2 | 151.1 | 121.2 | 72.8 | 54.1 | 37.8 | 33.0 | 26.4 | 22.0 | 11.66 |

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

| F.V/Time | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 6h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1.60V | 759.2 | 464.4 | 336.4 | 269.3 | 156.4 | 115.9 | 79.0 | 68.9 | 54.6 | 45.1 | 24.1 |
| 1.67V | 726.4 | 435.4 | 324.9 | 262.0 | 152.2 | 112.9 | 77.7 | 67.8 | 54.1 | 44.7 | 23.9 |
| 1.70V | 676.9 | 425.9 | 314.6 | 253.0 | 148.7 | 110.2 | 76.6 | 66.9 | 53.5 | 44.2 | 23.6 |
| 1.75V | 635.1 | 405.5 | 302.1 | 243.8 | 145.2 | 108.0 | 75.5 | 65.8 | 52.8 | 43.8 | 23.4 |
| 1.80V | 596.2 | 389.0 | 291.9 | 235.8 | 140.4 | 104.9 | 73.9 | 64.7 | 52.1 | 43.6 | 23.2 |

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: 9 ~ 11N.m) | Advanced AGM separator for high pressure cell design | Dilute high purity sulphuric acid | Two layers epoxy resin seal |

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