

GENERAL FEATURES

- Deep cycle design ,high energy density
- Hybrid gel technology,longer cyclic life better thermal stability
- High Reliability and Good Quality
- Ideal for repeat cycling daily use
- Lower self-discharge
- Long Service Life, in Float or Cyclic

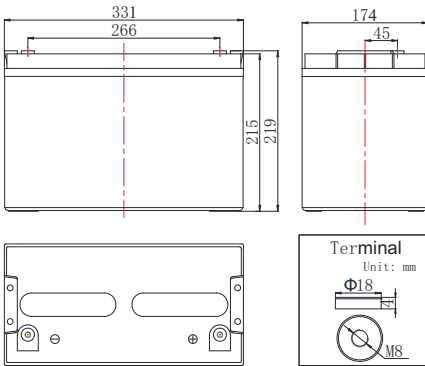
APPLICAITONS

- Solar & Wind energy system
- Signal installations of the air, sea, road and railway transport
- Radio relay stations of telecommunications
- Cellular roadside and roof top transmission stations
- Street & garden lighting
- Hybrid power supplies



DIMENSION & WEIGHT

| | |
|------------------|---------|
| Length(mm) | 331±1 |
| Width(mm) | 176±1 |
| Height(mm) | 215±1 |
| Total Height(mm) | 219±1 |
| Weight(KGS) | 30.7±3% |



COMPLIED STANDARDS

| | |
|----------------|---------------|
| IEC60896-21/22 | JISC8704 |
| YD/T1360 | BS6290 Part 4 |
| GB/T 19638 | UL1989 |

TECHNICAL SPECIFICATIONS



| | | |
|-----------------------------------------------------|----------------------------|--------------------------------------------------------------|
| Nominal Voltage | | 12V(6cells per unit) |
| Design Floating Life @25°C | | 12 Years |
| Nominal Capacity @25°C(20 hour rate@10.00A,10.80V) | | 100.0Ah |
| Capacity @25°C | 100 hour rate(1.10A,10.8V) | 110.0Ah |
| | 10 hour rate(9.52A, 10.8V) | 95.2Ah |
| | 5 hour rate (16.6A,10.5V) | 83.0Ah |
| | 1 hour rate (57.9A,9.6V) | 57.9Ah |
| Internal Resistance | Full Charged Battery@25°C | ≤5.5mΩ |
| Ambient Temperature | Discharge | -30°C~60°C |
| | Charge | -30°C~60°C |
| | Store | -30°C~60°C |
| Max. Discharge Current @25°C | | 900A(5s) |
| Capacity affected by Temperature (10 Hour 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 25A Voltage 13.6-13.8V |
| | Cycle Use | Initial Charging Current Less than 25A Voltage 14.4-14.9V |

BATTERY DISCHARGE TABLE

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

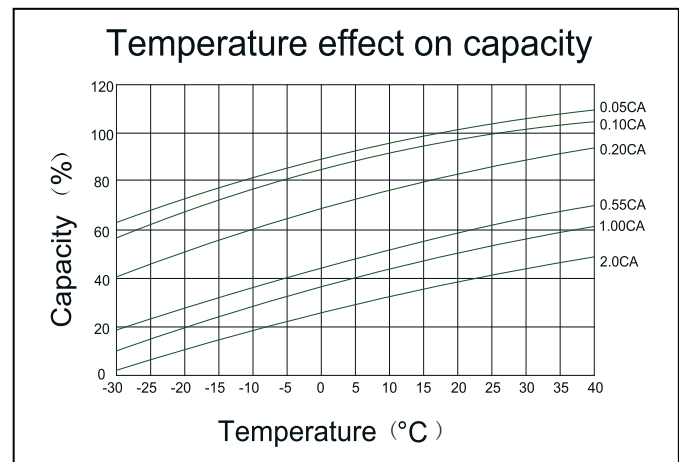
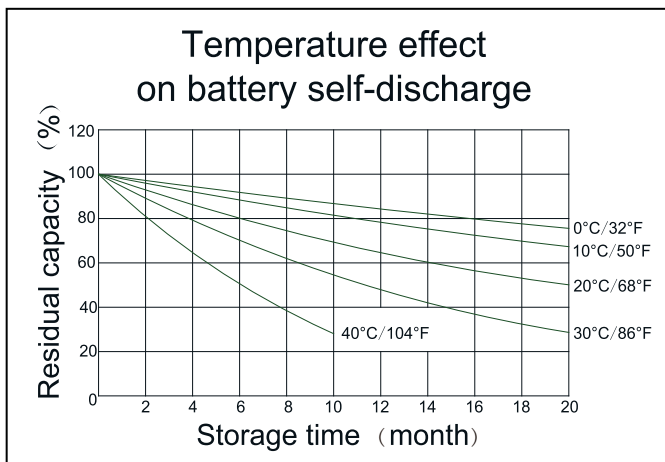
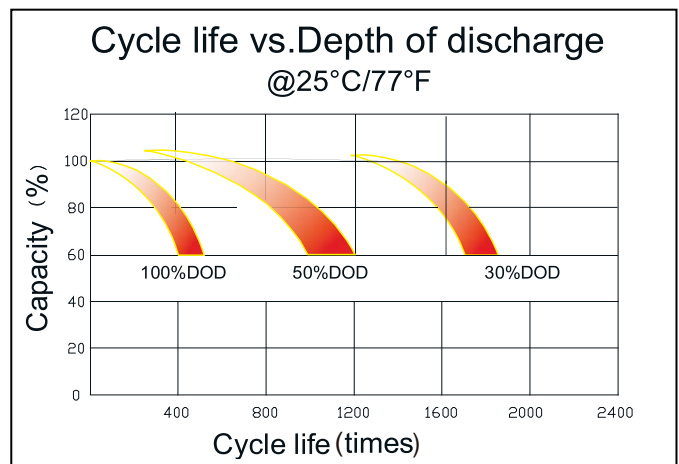
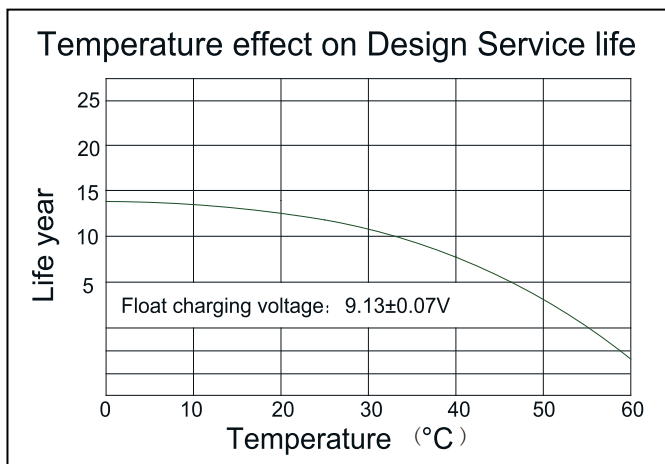
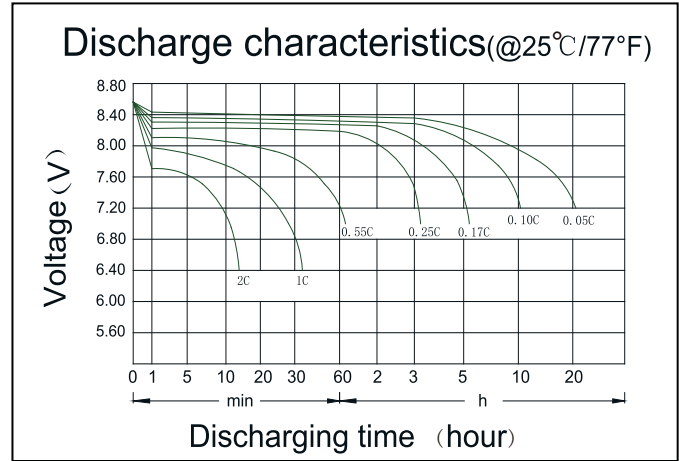
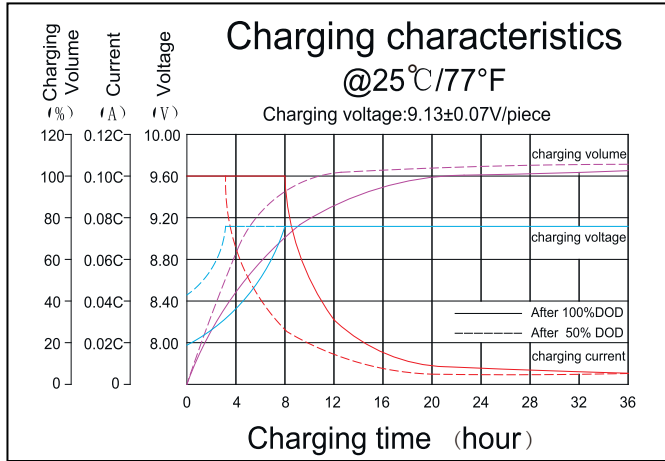
| F.V/Time | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 20h | 48h | 100h |
|------------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.80V/cell | 120.1 | 99.0 | 75.4 | 58.8 | 47.2 | 31.0 | 23.2 | 18.9 | 16.0 | 11.2 | 9.52 | 5.00 | 2.22 | 1.10 |
| 1.75V/cell | 133.2 | 108.4 | 81.1 | 62.9 | 50.9 | 32.5 | 24.5 | 19.8 | 16.6 | 11.5 | 9.73 | 5.10 | 2.25 | 1.11 |
| 1.70V/cell | 145.6 | 118.4 | 89.1 | 65.7 | 53.8 | 34.3 | 25.7 | 20.6 | 17.3 | 11.9 | 10.0 | 5.20 | 2.28 | 1.12 |
| 1.65V/cell | 154.1 | 125.0 | 93.9 | 69.7 | 55.7 | 35.5 | 26.7 | 21.3 | 17.9 | 12.3 | 10.3 | 5.33 | 2.32 | 1.14 |
| 1.60V/cell | 168.9 | 135.7 | 99.8 | 72.3 | 57.9 | 37.0 | 27.6 | 22.0 | 18.5 | 12.6 | 10.5 | 5.45 | 2.36 | 1.15 |

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

| F.V/Time | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 20h | 48h | 100h |
|------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 1.80V/cell | 222.3 | 184.9 | 142.3 | 112.2 | 91.1 | 60.2 | 45.2 | 37.0 | 31.4 | 22.1 | 18.9 | 9.94 | 4.42 | 2.19 |
| 1.75V/cell | 243.6 | 200.6 | 151.8 | 119.4 | 97.8 | 62.8 | 47.6 | 38.5 | 32.5 | 22.7 | 19.3 | 10.1 | 4.48 | 2.20 |
| 1.70V/cell | 262.4 | 217.4 | 165.9 | 124.2 | 103.0 | 66.1 | 49.8 | 40.0 | 33.7 | 23.5 | 19.9 | 10.3 | 4.53 | 2.23 |
| 1.65V/cell | 276.8 | 228.6 | 174.0 | 131.3 | 106.2 | 68.1 | 51.5 | 41.3 | 34.9 | 24.1 | 20.3 | 10.6 | 4.61 | 2.26 |
| 1.60V/cell | 297.3 | 244.6 | 183.0 | 134.8 | 109.4 | 70.4 | 52.9 | 42.4 | 35.9 | 24.7 | 20.7 | 10.8 | 4.68 | 2.28 |

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 M8(torque:7~9N.m) | Advanced AGM separator for high pressure cell design | Dilute high purity sulphuric acid | Two layers epoxy resin seal |

CBB Battery Technology Co.,Ltd.

RM 504,55 Hanxing Zhong Road,Zhongcun,Panyu,Guangzhou 511495,Guangdong,China
Tel:0086-20-84888946 Fax:0086-20-62824569

Koyama®

www.cbb-battery.com