

GENERAL FEATURES

- Environmentally friendly
- Can be used at vertical or horizontal orientation
- High Reliability and Good Quality
- High gas recombination efficiency
- High Power Density
- Maintenance-Free Operation

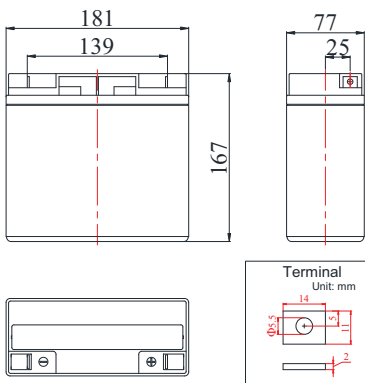
APPLICATIONS

- UPS & EPS
- Emergency lighting Systems
- Medical Equipment
- Cable TV Systems
- Alarm Systems
- Electric Test Equipment
- Security Systems



DIMENSIONS & WEIGHT

| | |
|------------------|--------|
| Length(mm) | 181±1 |
| Width(mm) | 77±1 |
| Height(mm) | 167±1 |
| Total Height(mm) | 167±1 |
| Weight(kg) | 6.0±3% |



COMPLIED STANDARDS

| | |
|-----------------|--------------|
| IEC 60896-21/22 | JIS C8704 |
| YD/T799 | BS6290 part4 |
| GB/T 19639 | UL 1989 |

TECHNICAL SPECIFICATIONS



| | | |
|---|----------------------------|---|
| Nominal Voltage | | 12V(6 cells per unit) |
| Design Floating Life @25°C | | 10 Years |
| Nominal Capacity @25°C(20 hour rate@1.00A,10.50V) | | 20Ah |
| Capacity @25°C | 10 hour rate (1.88A,10.8V) | 18.8Ah |
| | 5 hour rate (3.57A,10.5V) | 17.85Ah |
| | 1 hour rate (13.06A,9.6V) | 13.06Ah |
| Internal Resistance | Full Charged Battery@25°C | ≤14.0mΩ |
| Ambient Temperature | Discharge | -20°C~50°C |
| | Charge | -20°C~50°C |
| | Storage | -20°C~50°C |
| Max.Discharge Current@25°C | | 300A(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 | Floating Charge | Initial Charging Current Less than 6.0A Voltage 13.6-13.8V |
| | Cycle Charge | Initial Charging Current Less than 6.0A Voltage 14.4-14.9V |

BATTERY DISCHARGE TABLE

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

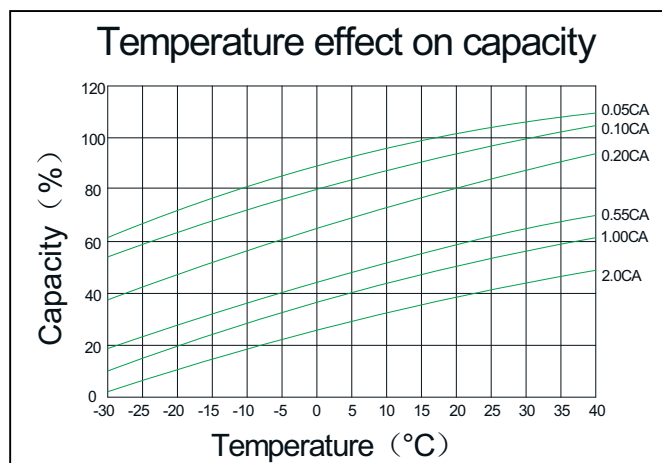
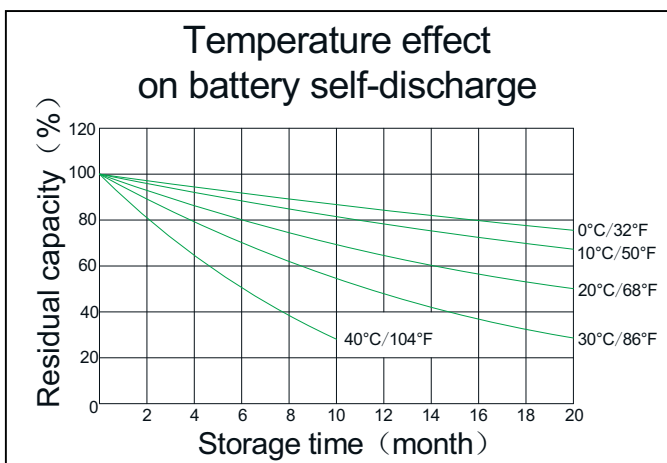
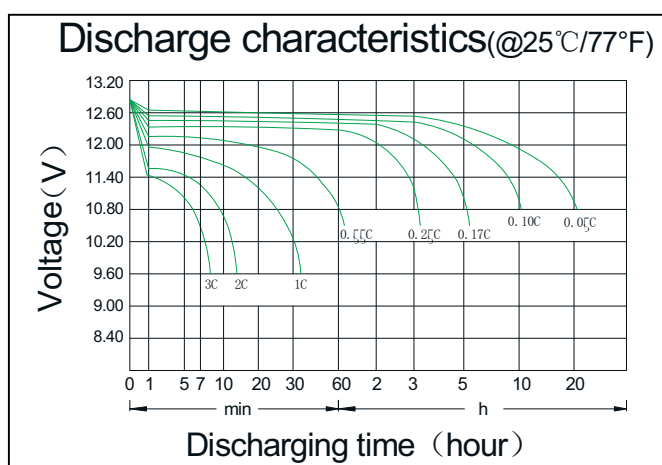
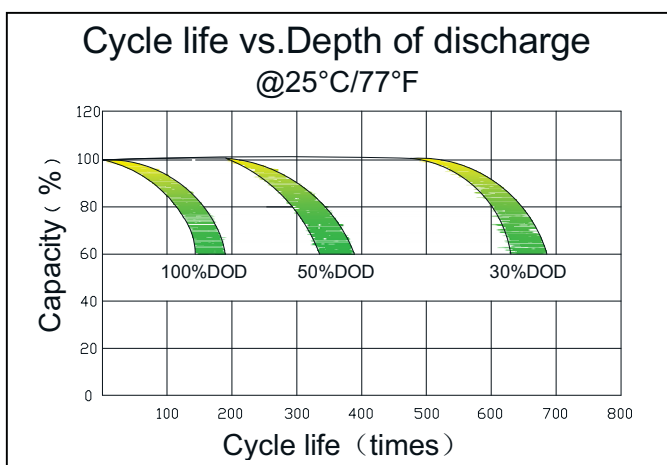
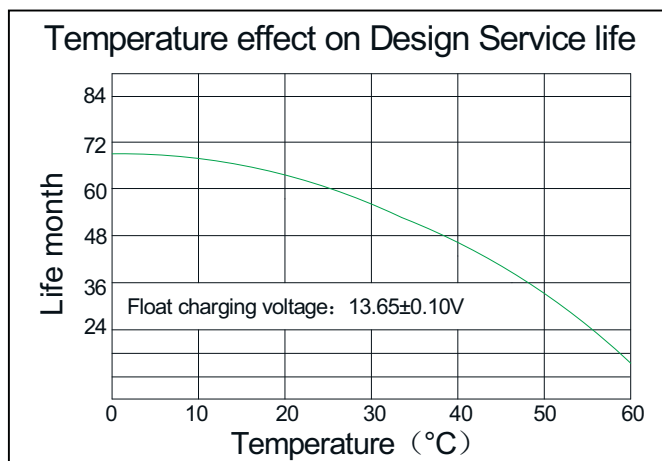
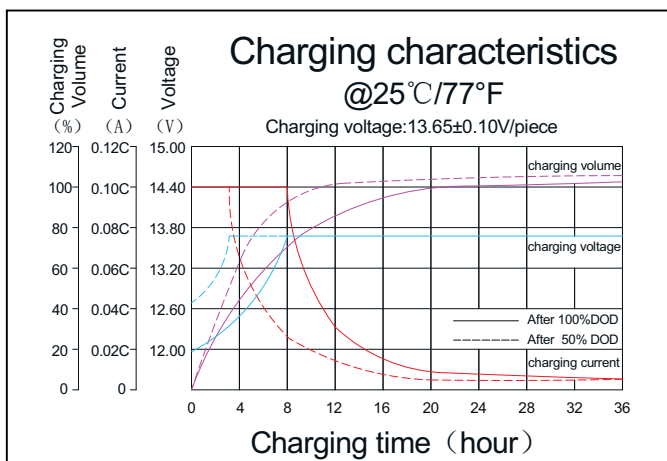
| F.V/Time | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|-------|
| 1.60V | 79.83 | 52.34 | 38.43 | 22.81 | 16.63 | 13.06 | 8.26 | 5.66 | 3.77 | 2.53 | 2.00 | 1.057 |
| 1.67V | 76.05 | 50.17 | 37.60 | 22.43 | 16.36 | 12.63 | 8.11 | 5.54 | 3.71 | 2.48 | 1.97 | 1.037 |
| 1.70V | 72.86 | 47.43 | 37.09 | 22.13 | 16.16 | 12.23 | 7.94 | 5.46 | 3.63 | 2.43 | 1.95 | 1.020 |
| 1.75V | 69.44 | 45.23 | 35.11 | 21.40 | 15.73 | 11.86 | 7.80 | 5.34 | 3.57 | 2.41 | 1.91 | 1.000 |
| 1.80V | 64.12 | 42.13 | 32.77 | 20.54 | 15.21 | 11.51 | 7.51 | 5.14 | 3.43 | 2.34 | 1.88 | 0.989 |

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

| F.V/Time | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|--------|--------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| 1.60V | 148.66 | 100.46 | 74.29 | 44.37 | 32.46 | 25.69 | 16.20 | 11.16 | 7.47 | 5.05 | 4.01 | 2.109 |
| 1.67V | 142.46 | 96.39 | 72.86 | 43.74 | 32.03 | 24.80 | 15.91 | 10.95 | 7.33 | 4.98 | 3.98 | 2.077 |
| 1.70V | 136.60 | 91.17 | 72.03 | 43.26 | 31.71 | 23.91 | 15.62 | 10.75 | 7.21 | 4.90 | 3.95 | 2.051 |
| 1.75V | 130.86 | 87.04 | 68.34 | 41.94 | 30.94 | 23.03 | 15.33 | 10.54 | 7.06 | 4.86 | 3.88 | 2.009 |
| 1.80V | 122.00 | 81.41 | 63.89 | 40.40 | 30.00 | 22.14 | 14.72 | 10.13 | 6.80 | 4.73 | 3.84 | 2.000 |

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 L1 (torque: 4~6N.m) | Advanced AGM separator for high pressure cell design | Dilute high purity sulphuric acid | Two layers epoxy resin seal |

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