

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

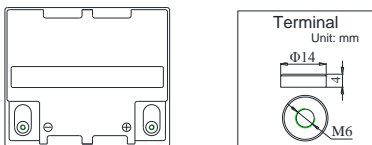
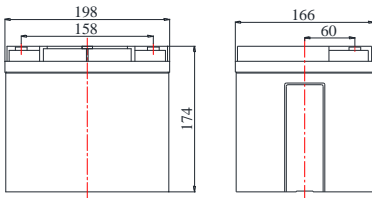
APPLICATIONS

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



DIMENSIONS & WEIGHT

| | |
|------------------|---------|
| Length(mm) | 198±1 |
| Width(mm) | 166±1 |
| Height(mm) | 174±1 |
| Total Height(mm) | 174±1 |
| Weight(kg) | 12.3±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 | | 10 Years |
| Nominal Capacity @25°C(10 hour rate @3.80A,10.80V) | | 40Ah |
| Capacity @25°C | 20 hour rate (2.03A,10.5V) | 40.6Ah |
| | 5 hour rate (6.7A,10.5V) | 33.5Ah |
| | 1 hour rate (24.2A,9.6V) | 24.2Ah |
| Internal Resistance | Full Charged Battery@25°C | ≤10mΩ |
| Ambient Temperature | Discharge | -20°C~50°C |
| | Charge | -20°C~50°C |
| | Storage | -20°C~50°C |
| Max.Discharge Current@25°C | | 380A(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 9.5A Voltage 13.6-13.8V |
| | Cycle Use | Initial Charging Current Less than 9.5A Voltage 14.4-14.9V |

BATTERY DISCHARGE TABLE

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

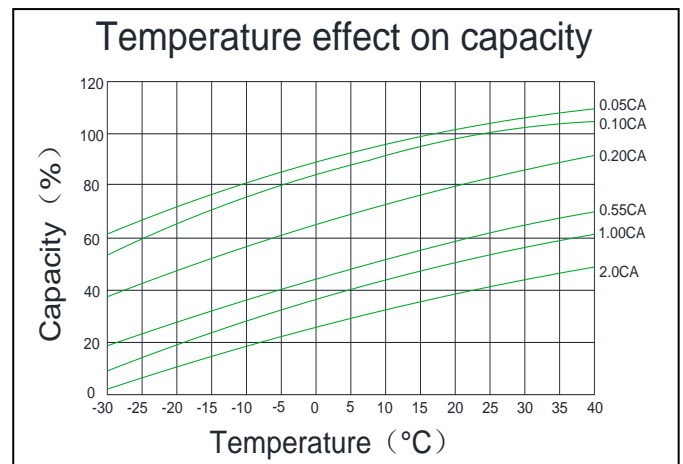
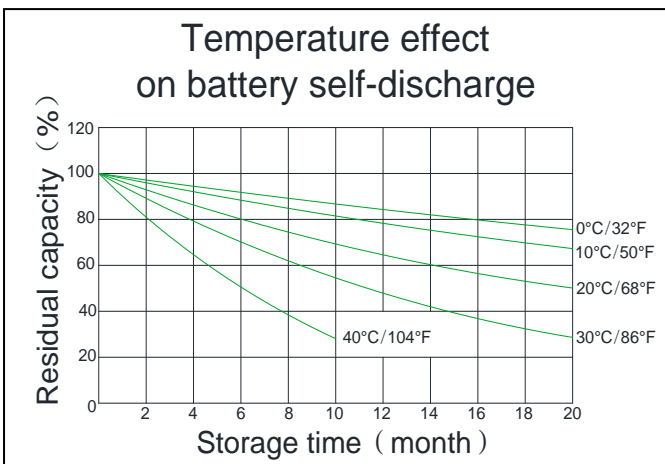
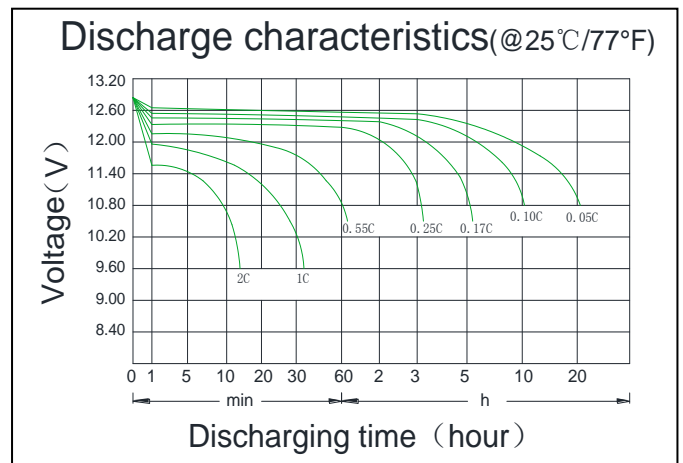
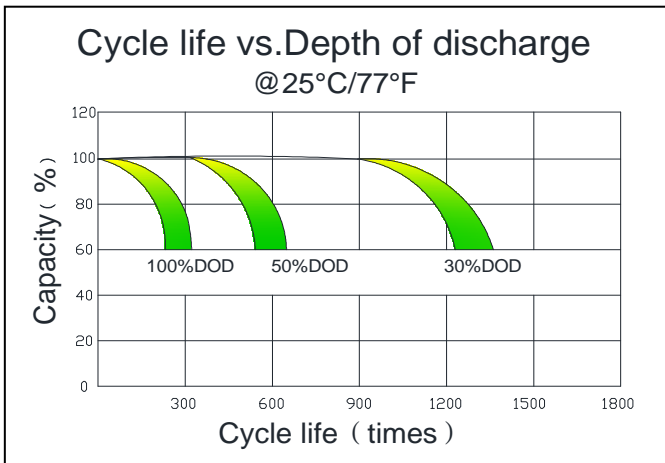
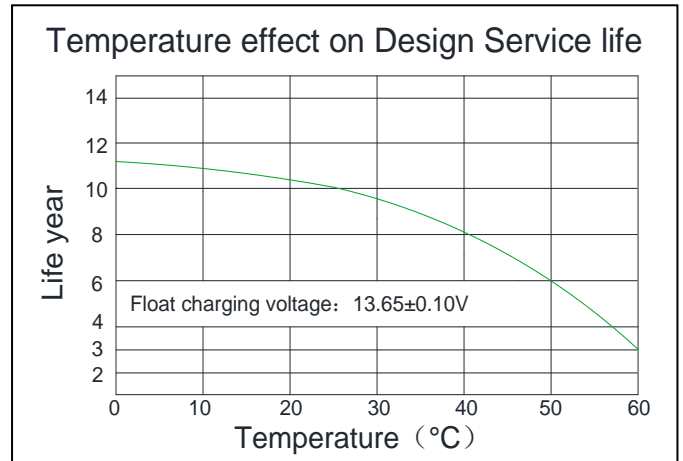
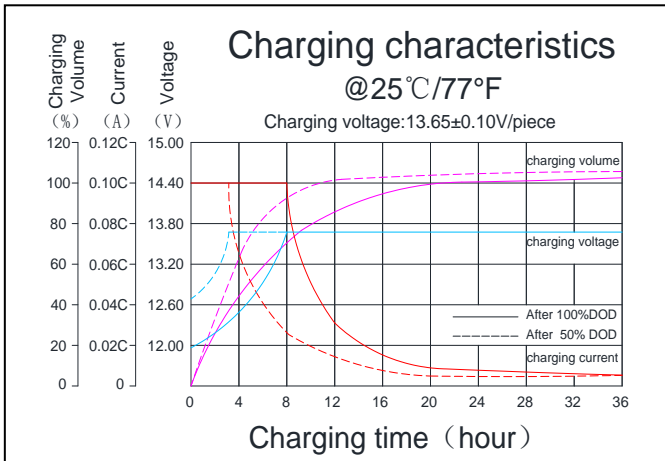
| F.V/Time | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 6h | 8h | 10h | 20h |
|----------|-------|-------|-------|------|------|------|-----|-----|-----|-----|------|
| 1.60V | 68.6 | 40.4 | 30.6 | 24.2 | 14.3 | 10.5 | 7.1 | 6.2 | 4.8 | 4.0 | 2.11 |
| 1.67V | 64.8 | 38.3 | 29.4 | 23.5 | 13.8 | 10.1 | 7.0 | 6.0 | 4.8 | 3.9 | 2.09 |
| 1.70V | 60.8 | 37.2 | 28.3 | 22.6 | 13.4 | 9.9 | 6.8 | 5.9 | 4.7 | 3.9 | 2.06 |
| 1.75V | 57.0 | 35.5 | 27.1 | 21.7 | 13.1 | 9.7 | 6.7 | 5.8 | 4.6 | 3.8 | 2.03 |
| 1.80V | 53.5 | 34.2 | 26.1 | 20.9 | 12.6 | 9.3 | 6.5 | 5.7 | 4.6 | 3.8 | 2.01 |

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 | 131.1 | 80.2 | 58.1 | 46.5 | 27.0 | 20.0 | 13.6 | 11.9 | 9.4 | 7.8 | 4.16 |
| 1.67V | 125.5 | 75.2 | 56.1 | 45.3 | 26.3 | 19.5 | 13.4 | 11.7 | 9.3 | 7.7 | 4.13 |
| 1.70V | 116.9 | 73.6 | 54.3 | 43.7 | 25.7 | 19.0 | 13.2 | 11.6 | 9.2 | 7.6 | 4.08 |
| 1.75V | 109.7 | 70.0 | 52.2 | 42.1 | 25.1 | 18.7 | 13.0 | 11.4 | 9.1 | 7.6 | 4.05 |
| 1.80V | 103.0 | 67.2 | 50.4 | 40.7 | 24.2 | 18.1 | 12.8 | 11.2 | 9.0 | 7.5 | 4.01 |

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 **Greenpower** 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:3~4N.m) | Advanced AGM separator for high pressure cell design | Dilute high purity sulphuric acid | Two layers epoxy resin seal |