

GENERAL FEATURES

- Environmentally friendly
- Able to operate at 60°C
- Integrated design to ensure the best uniformity and reliability
- Long life and high stability under high temp. environment (no air-con needed)
- Use super-C additives: Deep discharge recovery capability

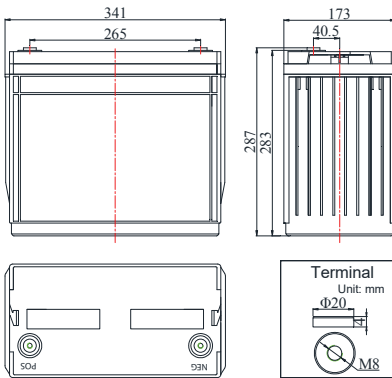
APPLICATIONS

- Solar & Wind energy system
- BTS Stations
- UPS system
- Telecom systems
- Wheel chair & Golf Car
- Marine Equipment
- Railway Systems



DIMENSIONS & WEIGHT

| | |
|------------------|---------|
| Length(mm) | 341±1 |
| Width(mm) | 173±1 |
| Height(mm) | 283±1 |
| Total Height(mm) | 287±1 |
| Weight(kg) | 41.0±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 | | 15 Years |
| Nominal Capacity @25°C (20 hour rate@2.00A,10.50V) | | 140Ah |
| Capacity @25°C | 10 hour rate (12.29A,10.8V) | 122.9Ah |
| | 5 hour rate (21.5A,10.5V) | 107.5Ah |
| | 1 hour rate (75.1A,9.6V) | 75.1Ah |
| Internal Resistance | Full Charged Battery@25°C | ≤5.0mΩ |
| Ambient Temperature | Discharge | -30°C~60°C |
| | Charge | -30°C~60°C |
| | Storage | -30°C~60°C |
| Max.Discharge Current@25°C | | 1350A(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 24.3A Voltage 13.6-13.8V |
| | Cycle Use | Initial Charging Current Less than 24.3A Voltage 14.4-14.9V |

BATTERY DISCHARGE TABLE

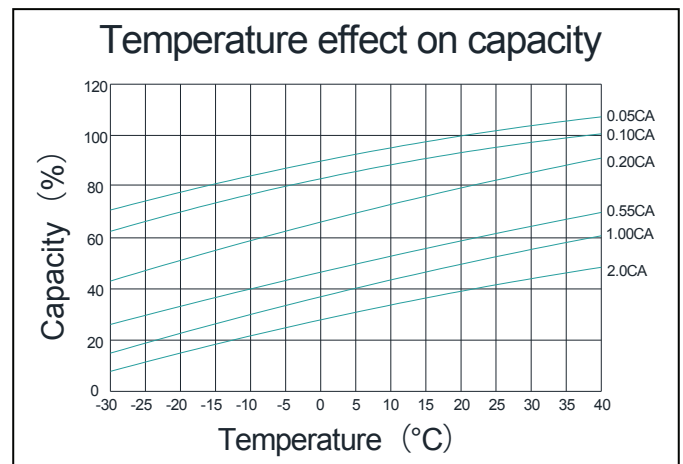
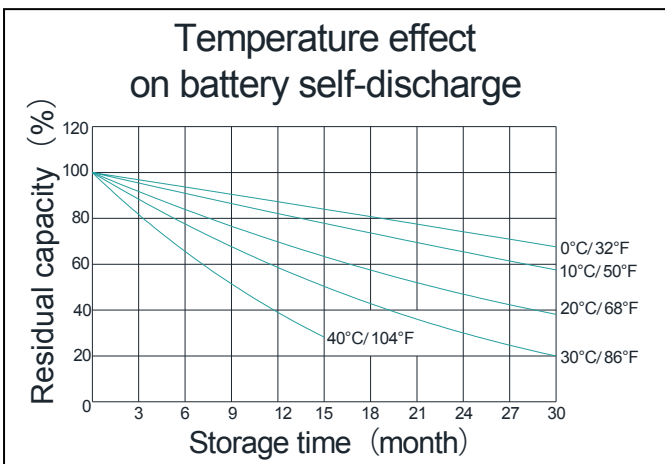
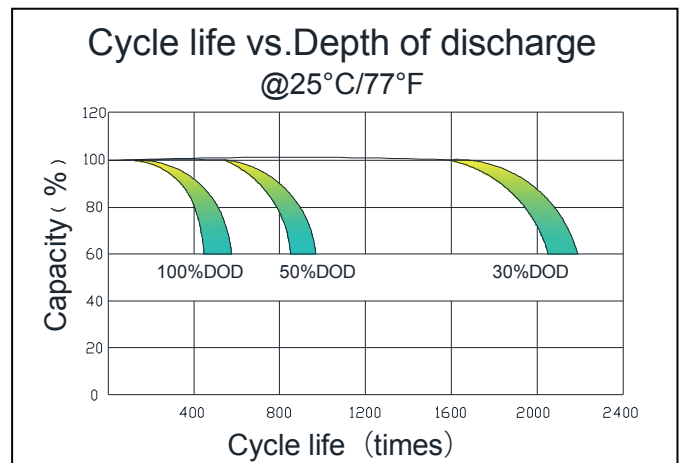
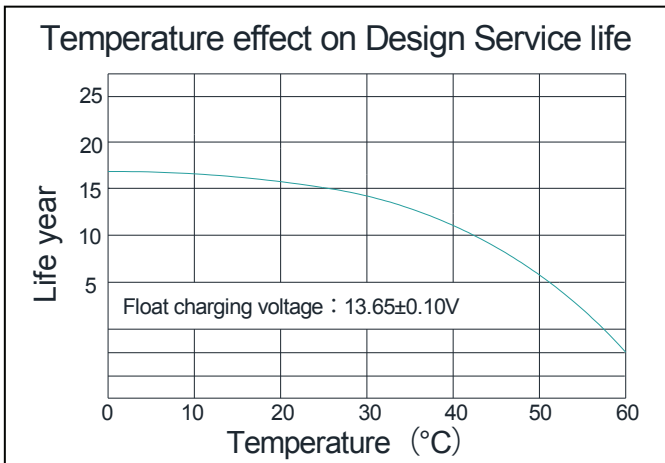
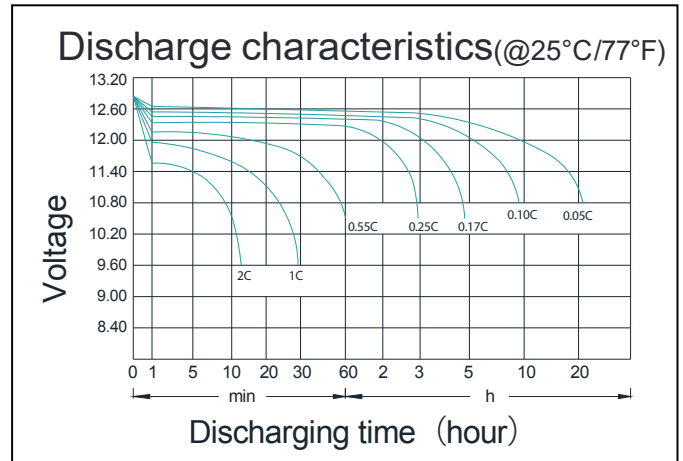
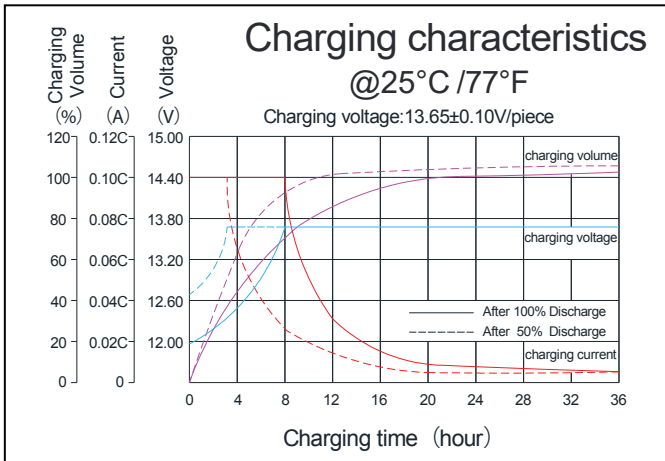
Discharge Constant Current per Cell (Amperes at 25°C)

| F.V/Time | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h | 100h |
|----------|-------|-------|-------|------|------|------|------|------|-------|------|------|
| 1.60V | 173.7 | 111.0 | 81.5 | 75.1 | 47.7 | 33.5 | 22.7 | 15.0 | 13.37 | 7.16 | 1.62 |
| 1.67V | 170.6 | 108.9 | 80.1 | 73.6 | 46.7 | 32.8 | 22.3 | 14.7 | 13.10 | 7.02 | 1.59 |
| 1.70V | 167.4 | 106.9 | 78.6 | 72.2 | 45.9 | 32.3 | 21.9 | 14.4 | 12.83 | 6.89 | 1.55 |
| 1.75V | 164.3 | 104.9 | 77.1 | 70.9 | 45.0 | 31.6 | 21.5 | 14.2 | 12.69 | 6.75 | 1.53 |
| 1.80V | 158.0 | 100.8 | 74.1 | 68.2 | 43.2 | 30.4 | 20.7 | 13.6 | 12.29 | 6.68 | 1.50 |

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 | 334.4 | 213.6 | 157.0 | 144.0 | 91.5 | 64.3 | 43.7 | 28.8 | 25.8 | 14.0 | 3.12 |
| 1.67V | 328.3 | 209.7 | 154.0 | 141.5 | 89.9 | 63.2 | 42.9 | 28.4 | 25.2 | 13.7 | 3.05 |
| 1.70V | 322.2 | 205.7 | 151.2 | 138.8 | 88.3 | 62.0 | 42.1 | 27.8 | 24.8 | 13.6 | 3.00 |
| 1.75V | 316.2 | 201.8 | 148.4 | 136.2 | 86.5 | 60.8 | 41.3 | 27.3 | 24.3 | 13.4 | 2.94 |
| | 304.0 | 194.1 | 142.7 | 131.0 | 83.3 | 58.5 | 39.8 | 26.2 | 23.4 | 13.0 | 2.89 |

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:1 0~12N.m) | Advanced AGM separator for high pressure cell design | Dilute high purity sulphuric acid with fumed Silica gel | Two layers epoxy resin seal |