

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

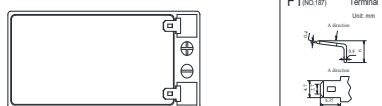
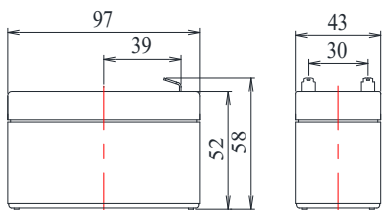
APPLICATIONS

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



DIMENSIONS & WEIGHT

| | |
|------------------|---------|
| Length(mm) | 97±1 |
| Width(mm) | 43±1 |
| Height(mm) | 52±1 |
| Total Height(mm) | 58±1 |
| Weight(kg) | 0.50±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 | | 5 Years |
| Nominal Capacity @25°C (20 hour rate@0.065A,10.50V) | | 1.30Ah |
| Capacity @25°C | 10 hour rate (0.12A,10.8V) | 1.20Ah |
| | 5 hour rate (0.22A,10.5V) | 1.10Ah |
| | 1 hour rate (0.89A,9.6V) | 0.89Ah |
| Internal Resistance | Full Charged Battery@25°C | ≤100.0mΩ |
| Ambient Temperature | Discharge | -20 ° C~50°C |
| | Charge | -20°C ~50°C |
| | Storage | -20°C ~50°C |
| Max.Discharge Current@25°C | | 19.5A(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 0.39A Voltage 13.6-13.8V |
| | Cycle Use | Initial Charging Current Less than 0.39A Voltage 14.4-14.9V |

BATTERY DISCHARGE TABLE

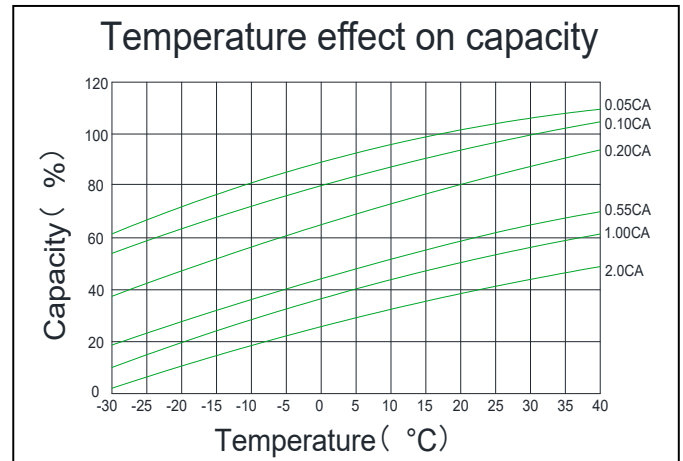
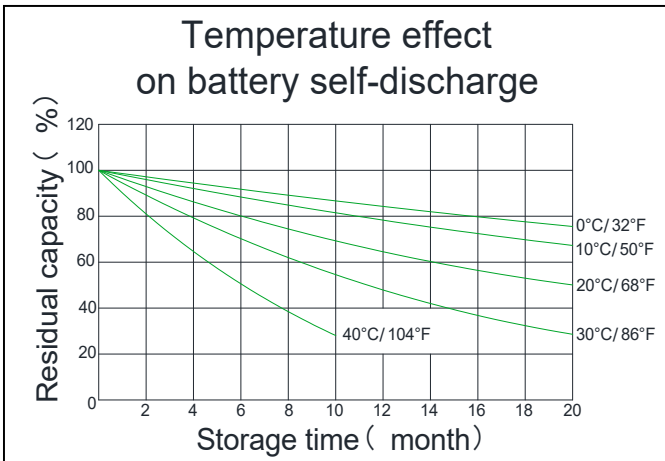
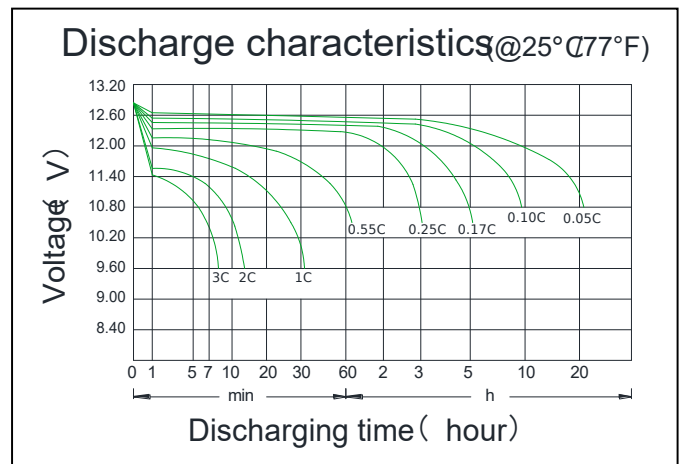
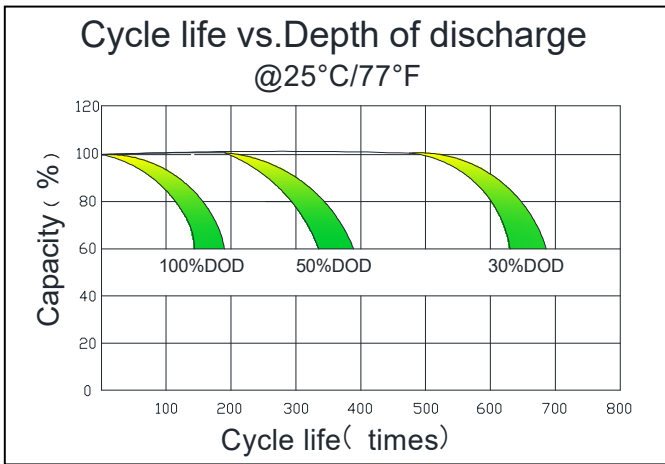
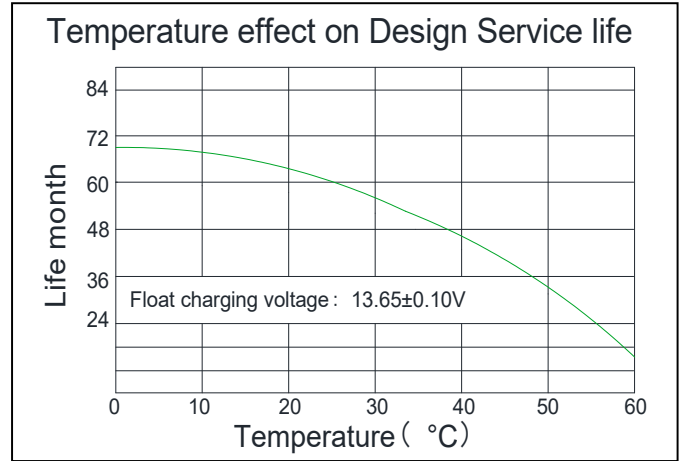
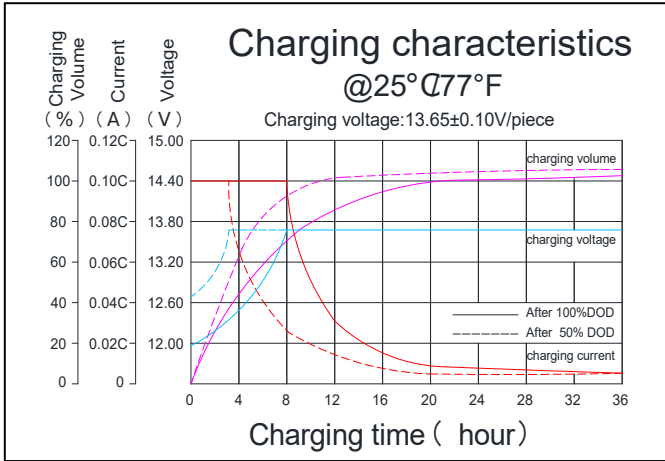
Discharge Constant Current per Cell (Amperes at 25°C)

| F.V/Time | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|------|-------|
| 1.60V | 4.47 | 3.23 | 2.55 | 1.49 | 1.04 | 0.89 | 0.53 | 0.36 | 0.24 | 0.16 | 0.13 | 0.069 |
| 1.67V | 4.39 | 3.20 | 2.47 | 1.46 | 1.02 | 0.88 | 0.52 | 0.35 | 0.23 | 0.16 | 0.13 | 0.067 |
| 1.70V | 4.31 | 3.11 | 2.42 | 1.44 | 1.01 | 0.86 | 0.51 | 0.35 | 0.23 | 0.16 | 0.13 | 0.066 |
| 1.75V | 4.23 | 2.96 | 2.35 | 1.41 | 0.99 | 0.85 | 0.50 | 0.34 | 0.22 | 0.15 | 0.12 | 0.065 |
| 1.80V | 4.06 | 2.93 | 2.28 | 1.35 | 0.95 | 0.81 | 0.48 | 0.33 | 0.21 | 0.15 | 0.12 | 0.064 |

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 | 8.60 | 6.37 | 4.91 | 2.87 | 2.01 | 1.72 | 1.01 | 0.69 | 0.46 | 0.31 | 0.26 | 0.135 |
| 1.67V | 8.45 | 6.27 | 4.77 | 2.81 | 1.97 | 1.69 | 0.99 | 0.68 | 0.45 | 0.31 | 0.25 | 0.132 |
| 1.70V | 8.29 | 6.14 | 4.64 | 2.76 | 1.93 | 1.66 | 0.98 | 0.67 | 0.45 | 0.30 | 0.25 | 0.130 |
| 1.75V | 8.13 | 5.78 | 4.51 | 2.71 | 1.90 | 1.63 | 0.96 | 0.66 | 0.44 | 0.29 | 0.24 | 0.128 |
| 1.80V | 7.82 | 5.60 | 4.39 | 2.61 | 1.83 | 1.56 | 0.92 | 0.63 | 0.42 | 0.28 | 0.24 | 0.126 |

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 resistanacer | Female Copper Insert (NO.187) | Advanced AGM separator for high pressure cell design | Dilute high purity sulphuric acid | Two layers epoxy resin seal |