



GENERAL FEATURES

- Environmentally friendly
- Thick plate with high Tin low Calcium alloy
- High Reliability and Good Quality
- Deep Discharge Recovery
- High Power Density
- Long Service Life, in Float or Cyclic

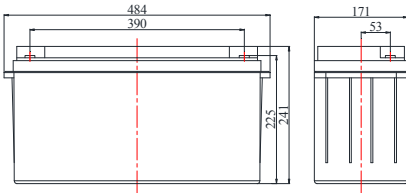
APPLICATIONS

- Solar & Wind energy system
- Cable TV Systems
- Telecom systems
- Wheel chair & Golf Car
- Marine Equipment
- Railway Systems
- Emergency Power System



DIMENSIONS & WEIGHT

| | |
|------------------|---------|
| Length(mm) | 484±1 |
| Width(mm) | 171±1 |
| Height(mm) | 241±1 |
| Total Height(mm) | 241±1 |
| Weight(kg) | 45.5±3% |



COMPLIED STANDARDS

| | |
|-----------------|--------------|
| IEC 60896-21/22 | JIS C8704 |
| YD/T799 | BS6290 part4 |
| GB/T 19638 | UL 1989 |

TECHNICAL SPECIFICATIONS

Art. no: TRAS012-150

| | | |
|---|------------------------------------|--|
| Nominal Voltage | | 12V(6 cells per unit) |
| Design Floating Life @25°C | | 12 Years |
| Nominal Capacity @25°C(20 hour rate@7.50A,10.50V) | | 150Ah |
| Capacity @25°C | 10 hour rate (13.65A,10.8V) | 136.5Ah |
| | 5 hour rate (23.9A,10.5V) | 119.5Ah |
| | 1 hour rate (83.4A,9.6V) | 83.4Ah |
| Internal Resistance | Full Charged Battery@25°C | ≤4.0mΩ |
| Ambient Temperature | Discharge | -20°C~50°C |
| | Charge | -20°C~50°C |
| | Storage | -20°C~50°C |
| Max.Discharge Current@25°C | | 1500A(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 27A Voltage 13.6-13.8V |
| | Cycle Use | Initial Charging Current Less than 27A 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 | 193.1 | 123.3 | 90.6 | 83.4 | 53.0 | 37.2 | 25.2 | 16.7 | 14.85 | 7.95 | 1.80 |
| 1.67V | 189.6 | 121.1 | 89.0 | 81.8 | 51.9 | 36.5 | 24.8 | 16.4 | 14.55 | 7.80 | 1.77 |
| 1.70V | 186.0 | 118.8 | 87.3 | 80.3 | 51.0 | 35.9 | 24.3 | 16.1 | 14.25 | 7.65 | 1.73 |
| 1.75V | 182.6 | 116.6 | 85.7 | 78.8 | 50.0 | 35.1 | 23.9 | 15.8 | 14.10 | 7.50 | 1.70 |
| 1.80V | 175.5 | 112.1 | 82.4 | 75.8 | 48.0 | 33.8 | 23.0 | 15.2 | 13.65 | 7.43 | 1.67 |

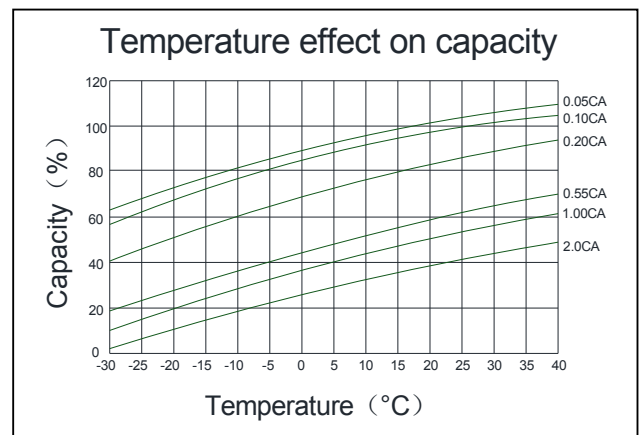
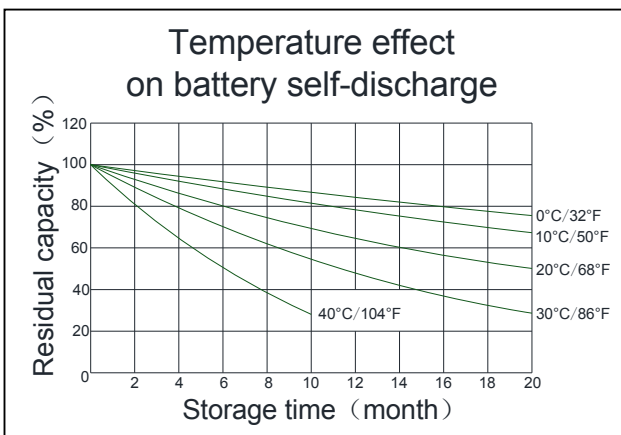
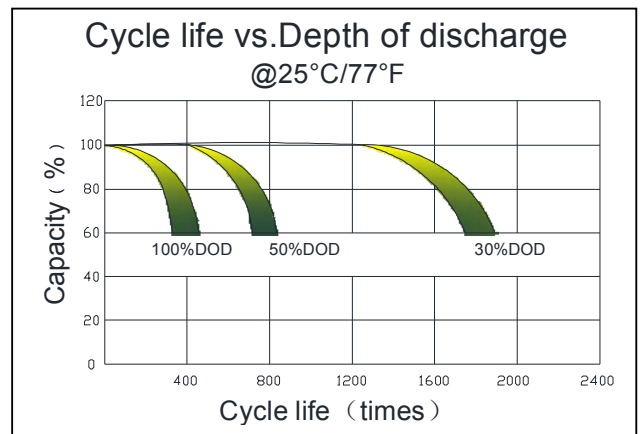
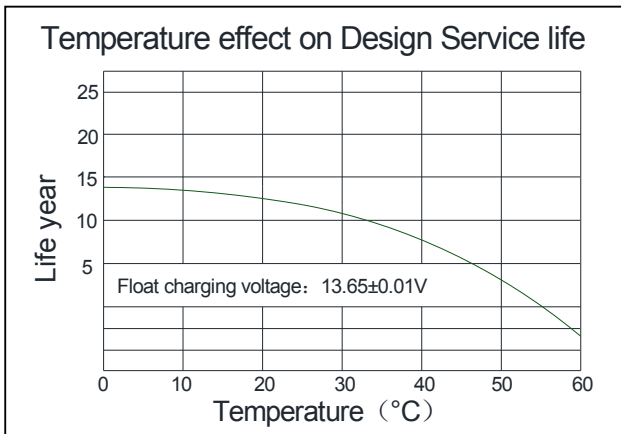
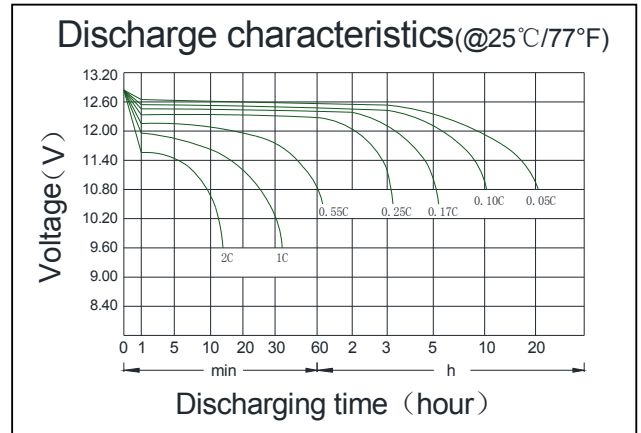
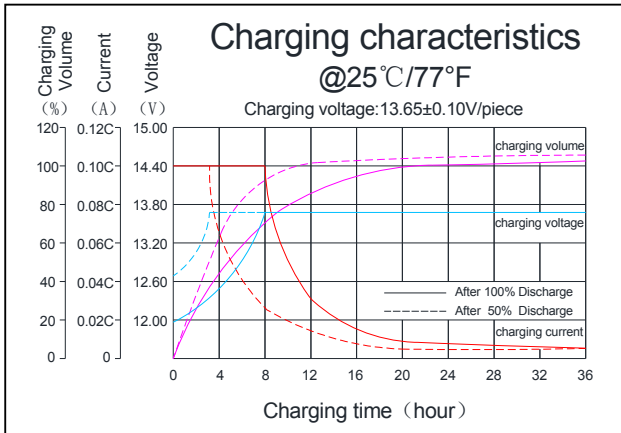
Discharge Constant Power per Cell (Watts at 25°C)

| F.V/Time | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h | 100h |
|--------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V | 371.6 | 237.3 | 174.5 | 160.1 | 101.7 | 71.4 | 48.6 | 32.0 | 28.7 | 15.5 | 3.47 |
| 1.67V | 364.8 | 233.0 | 171.2 | 157.2 | 99.9 | 70.2 | 47.7 | 31.5 | 28.1 | 15.2 | 3.39 |
| 1.70V | 358.1 | 228.6 | 168.0 | 154.2 | 98.1 | 68.9 | 46.8 | 30.9 | 27.6 | 15.1 | 3.33 |
| 1.75V | 351.3 | 224.3 | 164.9 | 151.4 | 96.2 | 67.5 | 45.9 | 30.3 | 27.0 | 14.9 | 3.27 |
| 1.80V | 337.8 | 215.7 | 158.6 | 145.5 | 92.6 | 65.0 | 44.3 | 29.1 | 26.0 | 14.4 | 3.21 |





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 |

