



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

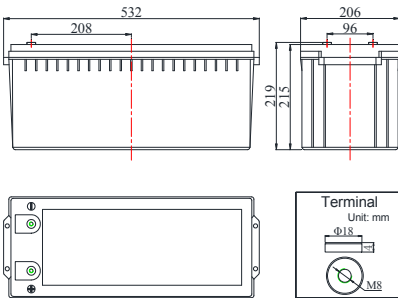
APPLICATIONS

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



DIMENSIONS & WEIGHT

| | |
|------------------|---------|
| Length(mm) | 532±1 |
| Width(mm) | 206±1 |
| Height(mm) | 215±1 |
| Total Height(mm) | 219±1 |
| Weight(kg) | 58.4±3% |



COMPLIED STANDARDS

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

TECHNICAL SPECIFICATIONS

Art. no: TRAD12-200

| | | |
|--|-----------------------------|--|
| Nominal Voltage | | 12V(6 cells per unit) |
| Design Floating Life @25°C | | 12 Years |
| Nominal Capacity @25°C(20 hour rate@10.00A,10.50V) | | 200Ah |
| Capacity @25°C | 10 hour rate (18.20A,10.8V) | 182.0Ah |
| | 5 hour rate (31.80A,10.5V) | 159.0Ah |
| | 1 hour rate (111.2A,9.6V) | 111.2Ah |
| Internal Resistance | Full Charged Battery@25°C | ≤3.4mΩ |
| Ambient Temperature | Discharge | -20°C~50°C |
| | Charge | -20°C~50°C |
| | Storage | -20°C~50°C |
| Max.Discharge Current@25°C | | 2000A(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 36A Voltage 13.6-13.8V |
| | Cycle Use | Initial Charging Current Less than 36A 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 | 257.4 | 164.4 | 120.8 | 111.2 | 70.6 | 49.6 | 33.6 | 22.2 | 19.80 | 10.60 | 2.40 |
| 1.67V | 252.8 | 161.4 | 118.6 | 109.0 | 69.2 | 48.6 | 33.0 | 21.8 | 19.40 | 10.40 | 2.36 |
| 1.70V | 248.0 | 158.4 | 116.4 | 107.0 | 68.0 | 47.8 | 32.4 | 21.4 | 19.00 | 10.20 | 2.30 |
| 1.75V | 243.4 | 155.4 | 114.2 | 105.0 | 66.6 | 46.8 | 31.8 | 21.0 | 18.80 | 10.00 | 2.26 |
| 1.80V | 234.0 | 149.4 | 109.8 | 101.0 | 64.0 | 45.0 | 30.6 | 20.2 | 18.20 | 9.90 | 2.22 |

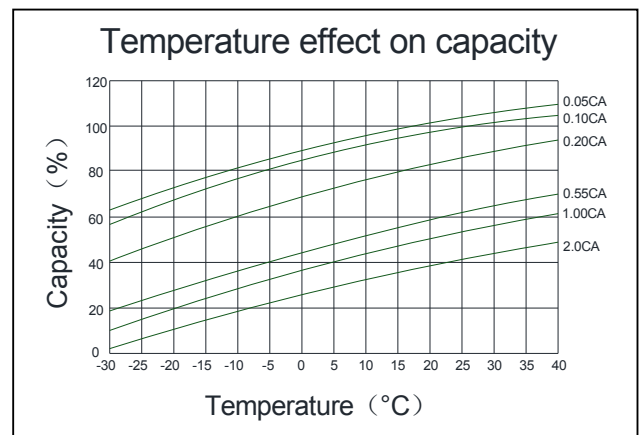
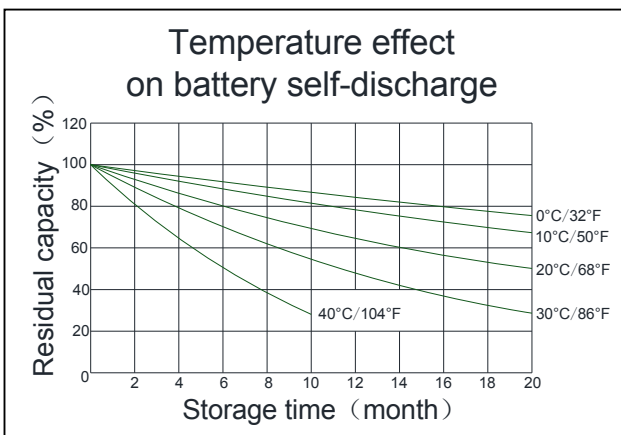
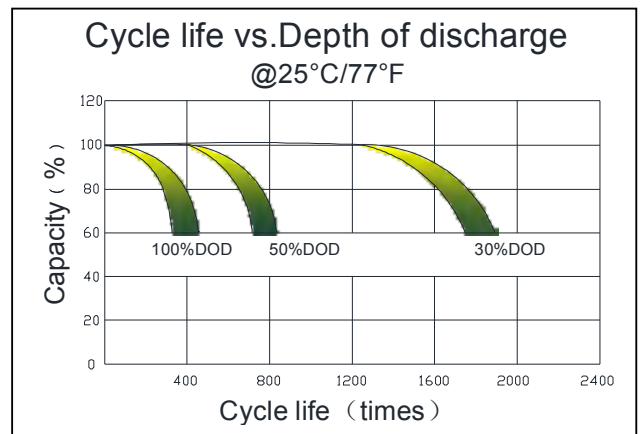
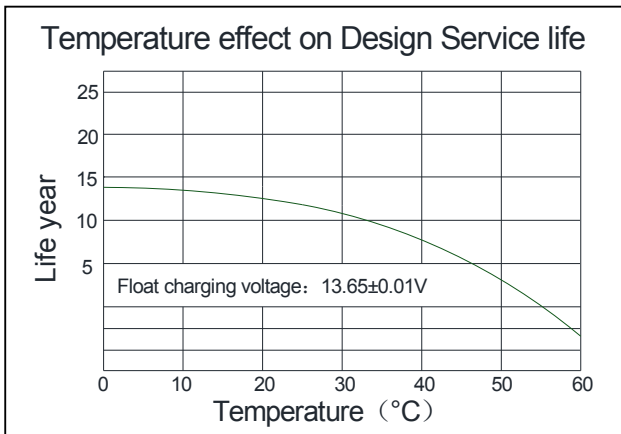
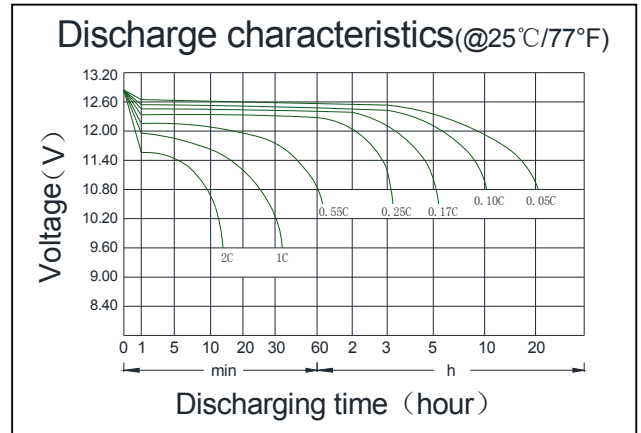
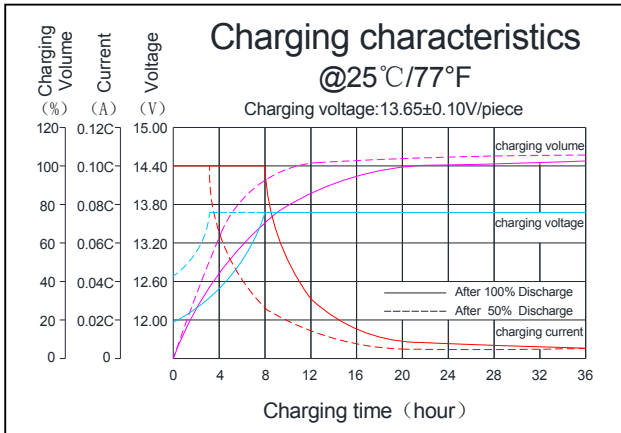
Discharge Constant Power per Cell (Watts at 25°C)

| F.V/Time | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h | 100h |
|----------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V | 495.4 | 316.4 | 232.6 | 213.4 | 135.6 | 95.2 | 64.8 | 42.6 | 38.2 | 20.7 | 4.62 |
| 1.67V | 486.4 | 310.6 | 228.2 | 209.6 | 133.2 | 93.6 | 63.6 | 42.0 | 37.4 | 20.2 | 4.52 |
| 1.70V | 477.4 | 304.8 | 224.0 | 205.6 | 130.8 | 91.8 | 62.4 | 41.2 | 36.8 | 20.1 | 4.44 |
| 1.75V | 468.4 | 299.0 | 219.8 | 201.8 | 128.2 | 90.0 | 61.2 | 40.4 | 36.0 | 19.8 | 4.36 |
| 1.80V | 450.4 | 287.6 | 211.4 | 194.0 | 123.4 | 86.6 | 59.0 | 38.8 | 34.6 | 19.2 | 4.28 |





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 |

