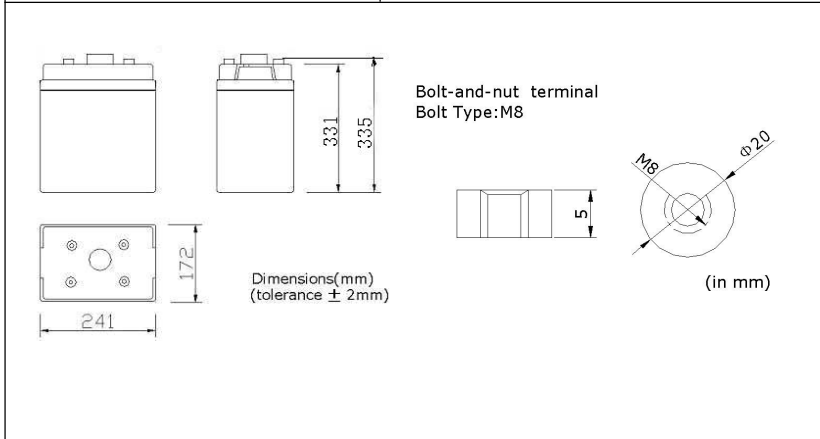


PHYSICAL SPECIFICATION

| | | |
|-------------------------|------------------|---|
| Nominal Voltage | | 2V |
| Nominal Capacity (10HR) | | 500Ah |
| Dimension | Length | 241±2mm (9.45 inches) |
| | Width | 172±2mm (6.77 inches) |
| | Container Height | 331±2mm (13.03 inches) |
| | Total Height | 364±2mm (14.33inches) |
| Weight | | Approx. 32.8 Kg ±3% (72.29lbs) |
| Standard Terminal | | Bolt-and-nuts terminal Bolt Type: M8 |



Shimastu STXL series designed with wide capacity range, suitable for large power system with a designed floating service life can target 15 years at 25°C. The batteries use thick tin plates made of high-tin alloy and contain AGM separators, providing superb performance and longer life cycles.

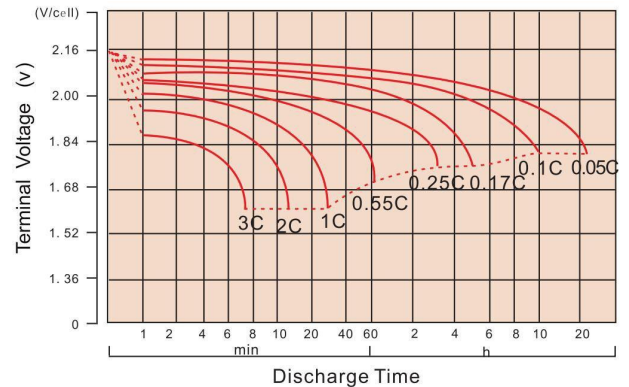
Features:

- 1.Non-spillable
- 2.Sealed and Maintenance-free Operation
- 3.High corrosion resistance and a long service life of 15 years at 25°C (77 °F)
- 4.Extremely low self-discharge, making the product highly reliable
- 5.High safety, special low impedance, and strong charge acceptance
- 6.Long cycle life, float or cyclic applications.

ELECTRICAL SPECIFICATION

| Characteristics | | |
|----------------------------------|--|---|
| Capacity | 20 hour rate (26.5A) | 530Ah |
| | 10 hour rate (50A) | 500Ah |
| | 5 hour rate (85A) | 425Ah |
| | 3 hour rate (125A) | 375Ah |
| | 1 hour rate (275A) | 275Ah |
| Capacity affected by temperature | 40°C (104 °F) | 102% |
| | 25°C (77 °F) | 100% |
| | 0°C (32 °F) | 85% |
| Max. Discharge Current | 2100A (5 sec) | |
| Short Circuit Current | 4100A | |
| Designed floating life | 15 years at 25°C(77 °F) | |
| Internal Resistance | Full charged battery (25°C,77 °F) 0.44mΩ | |
| Constant Voltage Charge | Cycle | Initial Charging Current less than 125A Voltage 2.35~2.40V at 25°C (77 °F) Temperature Coefficient -5mV/°C |
| | Standby | No limit on Initial Charging Current Voltage 2.25~2.30V at 25°C (77 °F) Temperature Coefficient -3.3mV/°C |

Discharge curves @ 25°C (77 °F)

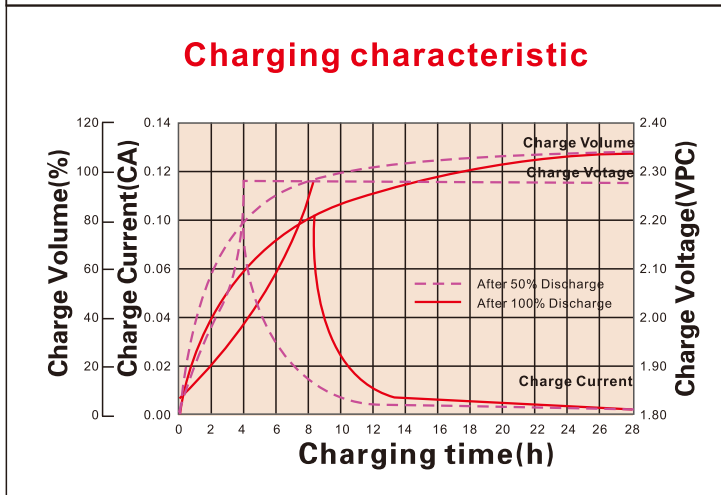
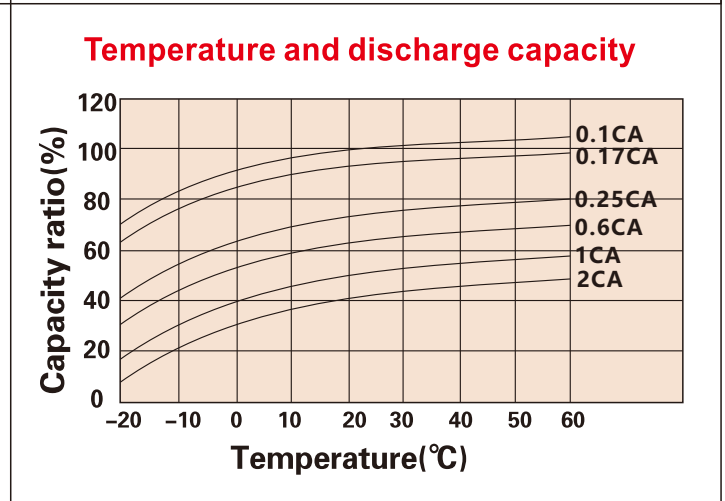
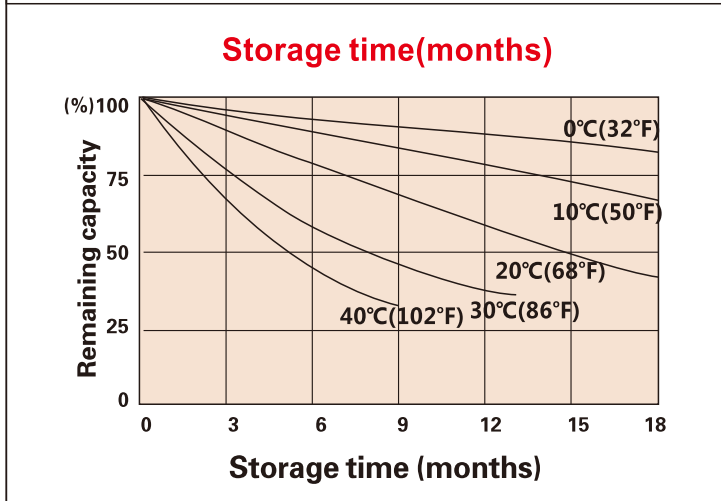
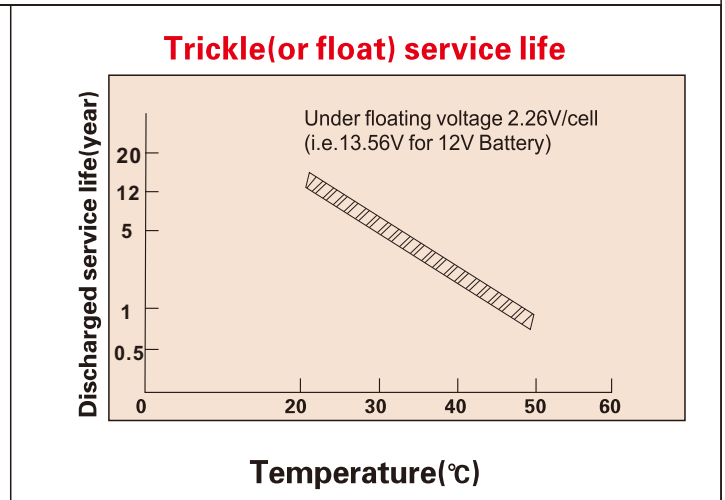
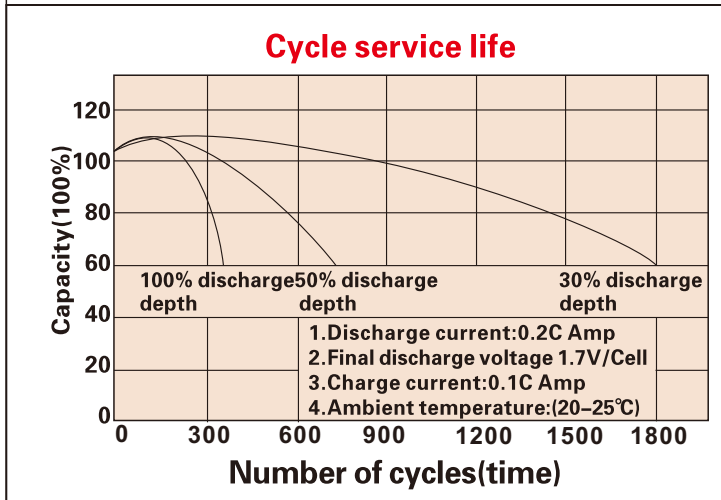


CONSTANT CURRENT DISCHARGE RATING A@25°C

| F.V/TIME | 15MIN | 30MIN | 1HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|----------|-------|-------|-------|-------|-------|------|------|------|------|
| 1.60V | 730.7 | 483.6 | 306.3 | 141.5 | 113.7 | 94.7 | 63.6 | 52.9 | 27.6 |
| 1.65V | 684.6 | 464.3 | 295.7 | 137.1 | 110.7 | 92.1 | 62.7 | 52.2 | 27.2 |
| 1.70V | 641.1 | 443.8 | 286.2 | 133.3 | 107.7 | 89.7 | 61.8 | 51.5 | 26.8 |
| 1.75V | 596.7 | 424.2 | 275.0 | 129.2 | 104.9 | 87.4 | 60.9 | 50.6 | 26.5 |
| 1.80V | 551.1 | 405.4 | 265.2 | 125.0 | 101.9 | 85.0 | 59.9 | 50.0 | 26.3 |

CONSTANT POWER DISCHARGE RATING WATT PER CELL@25°C

| F.V/TIME | 15MIN | 30MIN | 1HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|----------|--------|-------|-------|-------|-------|-------|-------|-------|------|
| 1.60V | 1277.5 | 878.4 | 575.4 | 269.9 | 218.3 | 182.5 | 125.0 | 104.4 | 54.2 |
| 1.65V | 1214.6 | 852.2 | 558.9 | 263.0 | 213.1 | 178.1 | 122.9 | 102.9 | 53.5 |
| 1.70V | 1154.6 | 822.7 | 544.1 | 256.6 | 208.1 | 174.0 | 121.1 | 101.4 | 53.0 |
| 1.75V | 1090.1 | 794.5 | 526.3 | 250.4 | 203.6 | 170.2 | 119.7 | 100.0 | 52.5 |
| 1.80V | 1020.6 | 767.0 | 510.3 | 242.7 | 198.5 | 166.2 | 118.3 | 98.4 | 52.0 |



| Storage Temperature | Supplementary Charge Interval | Charge Method |
|---------------------|-------------------------------|---|
| ≤20°C | Every 12 months | Less or 24 hours with a constant voltage of 2.3V/cell |
| 20-30°C | Every 8 months | 12-18 hours with a constant voltage of 2.45V/cell |
| ≥30°C | Storage to be avoided | 8-12 hours with a constant current of 0.05CA |

| | | |
|---|---|--|
| <h2 style="margin: 0;">APPLICATIONS</h2> <p>Standby Usage:</p> <ul style="list-style-type: none"> • UPS • Emergency Lights • Alarm Systems • Telecommunication Systems | <p>Cyclic Usage:</p> <ul style="list-style-type: none"> • Medical Equipments • Electric Instruments • Toys • Camcorder and Solar Systems | <p>Motive Usage:</p> <ul style="list-style-type: none"> • Golf Cars • Wheelchairs • Lawnmowers • Motorcycle |
|---|---|--|

(Note) All above information shall be changed without prior notice, Shimastu reserves the right to explain and update the latest information.