



OPzS250 Tubular Battery

ISO 9001
 MH28269 ISO 14001

PHYSICAL SPECIFICATION

| | | | |
|-------------------------|------------------|---|----------------|
| Nominal Voltage | | 2V | |
| Nominal Capacity (10HR) | | 250Ah | |
| Dimension | Length | 124±2mm | (4.88 inches) |
| | Width | 206±2mm | (8.11 inches) |
| | Container Height | 355±2mm | (13.98 inches) |
| | Total Height | 410±2mm | (16.14 inches) |
| Weight | | Approx. 20.5 Kg (45.18lbs) | |
| Standard Terminal | | Bolt-and-nuts terminal Bolt Type: M8 | |

Unit: mm



ELECTRICAL SPECIFICATION

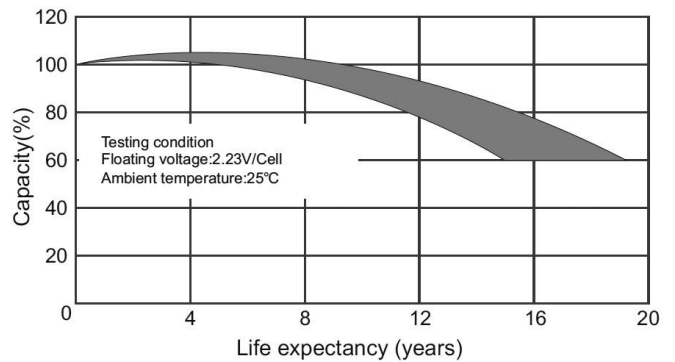
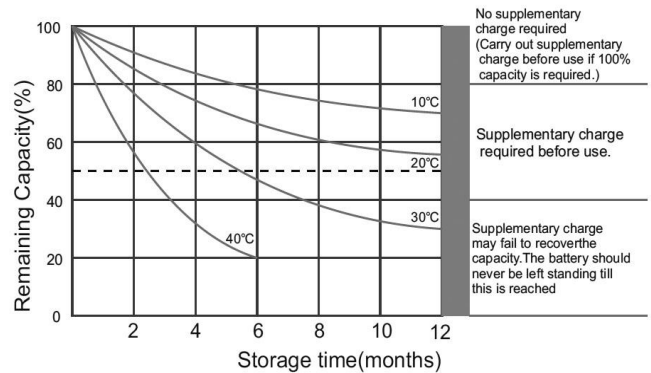
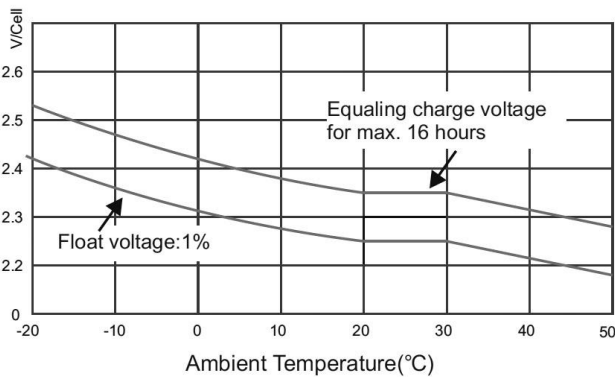
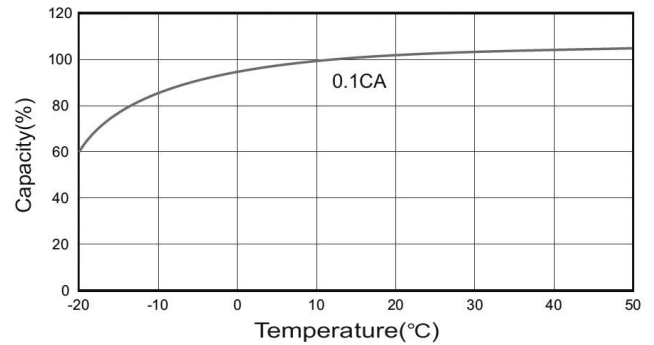
| Characteristics | | | Main Advantages |
|-------------------------|---|---|---|
| Capacity | 20 hour rate (15.51A to 1.80v/cell) 10 hour rate (26.41A to 1.80v/cell) 5 hour rate (45.10A to 1.75v/cell) 1hour rate (151.5A to 1.60v/cell) | 310.2Ah 264.1Ah 225.5Ah 151.5Ah | >> adopt tubular positive plate >> longest lifespan under deep discharge >> Strong temperature resistance performance >> Better charge reception capability >> 20 years design life |
| Operating Temp. Range | Discharge : -20°C~55°C Charge : -10°C~45°C Storage : -15°C~45°C | | |
| Max. Discharge Current | 1500A(5sec) | | |
| Short Circuit Current | 2750A | | |
| Designed life | 20 years (floating) at 25°C(77 °F) | | |
| Internal Resistance | Full charged battery (25°C,77 °F) 0.7mΩ | | |
| Constant Voltage Charge | Cycle | Initial Charging Current less than :≤62.5A Voltage: 2.35~2.40V at 25°C (77 °F) Temperature Coefficient -5mV/°C | |
| | Standby | No limit on Initial Charging Current Voltage: 2.23V at 25°C (77 °F) Temperature Coefficient -3mV/°C | |

CONSTANT CURRENT DISCHARGE RATING A@25°C

| F.V/TIME | 30min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 24h |
|----------|-------|-----|----|----|----|----|------|------|-------|
| 1.60V | 211 | 144 | 90 | 65 | 52 | 45 | 31.9 | 26.5 | 11.80 |
| 1.65V | 204 | 141 | 88 | 64 | 51 | 44 | 31.7 | 26.4 | 11.80 |
| 1.70V | 195 | 137 | 86 | 63 | 50 | 43 | 31.3 | 26.3 | 11.68 |
| 1.75V | 188 | 133 | 84 | 61 | 49 | 43 | 30.7 | 25.9 | 11.48 |
| 1.80V | 172 | 126 | 81 | 60 | 48 | 42 | 29.9 | 25.1 | 11.20 |
| 1.85V | 153 | 117 | 76 | 58 | 47 | 40 | 29.1 | 24.8 | 10.85 |

CONSTANT POWER DISCHARGE RATING WATT PER CELL@25°C

| F.V/TIME | 30min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 24h |
|----------|-------|-----|-----|-----|----|----|------|------|-------|
| 1.60V | 384 | 266 | 166 | 120 | 96 | 83 | 59.3 | 49.3 | 22.03 |
| 1.65V | 375 | 260 | 163 | 118 | 95 | 82 | 58.8 | 49.1 | 21.98 |
| 1.70V | 360 | 253 | 159 | 117 | 94 | 81 | 58.1 | 48.8 | 21.73 |
| 1.75V | 348 | 247 | 156 | 115 | 92 | 80 | 57.3 | 48.4 | 21.56 |
| 1.80V | 321 | 238 | 152 | 114 | 91 | 79 | 56.8 | 47.3 | 21.28 |
| 1.85V | 290 | 223 | 146 | 111 | 90 | 78 | 55.8 | 47.5 | 21.03 |



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