

PHYSICAL SPECIFICATION

| | | | |
|-------------------------|------------------|---|----------------|
| Nominal Voltage | | 2V | |
| Nominal Capacity (10HR) | | 420Ah | |
| Dimension | Length | 145±2mm | (5.71 inches) |
| | Width | 206±2mm | (8.11 inches) |
| | Container Height | 473±2mm | (18.62 inches) |
| | Total Height | 505±2mm | (19.88 inches) |
| Weight | | Approx. 33.5 Kg (73.8lbs) | |
| Standard Terminal | | Bolt-and-nuts terminal Bolt Type: M8 | |



ELECTRICAL SPECIFICATION

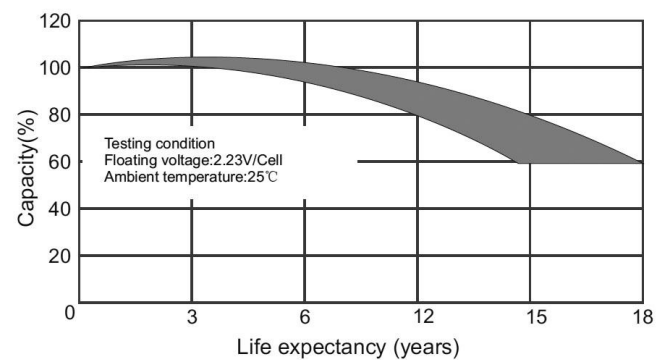
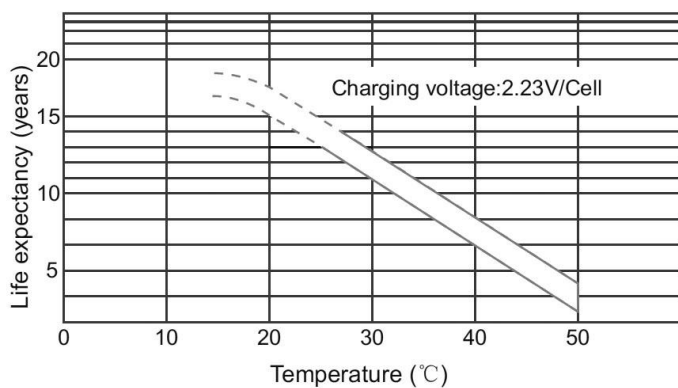
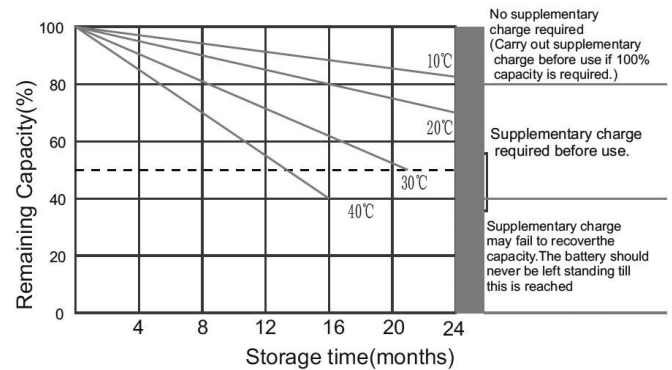
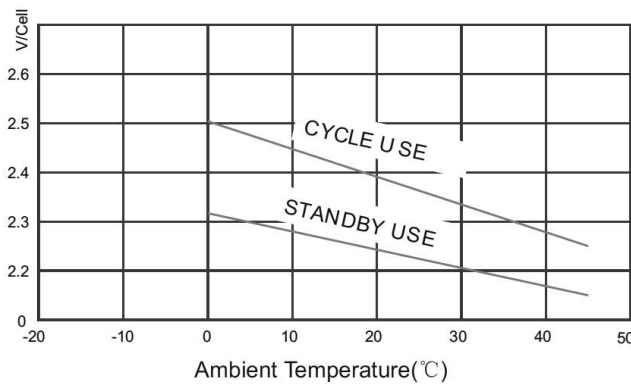
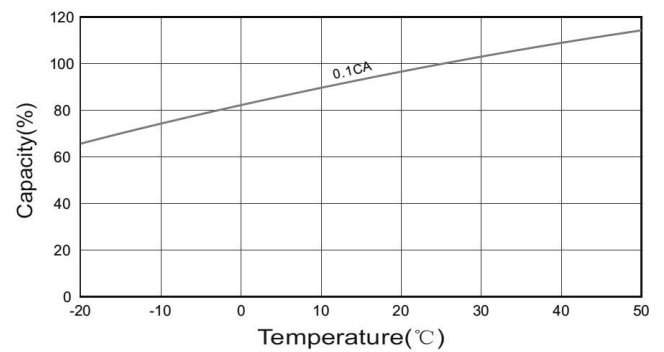
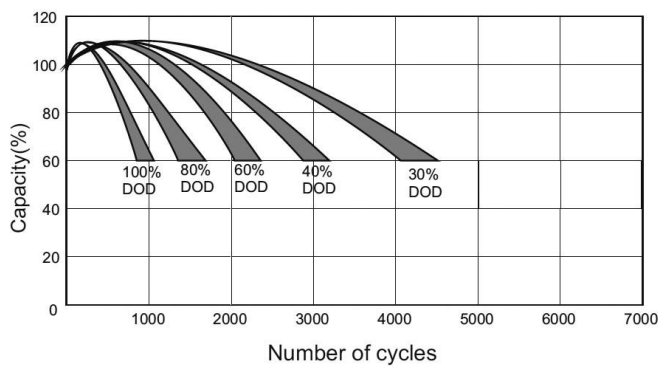
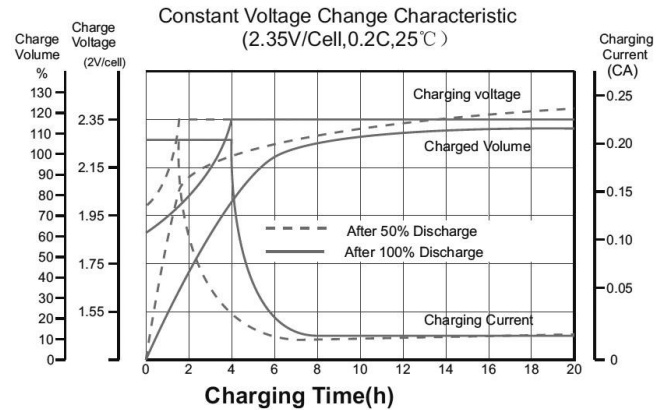
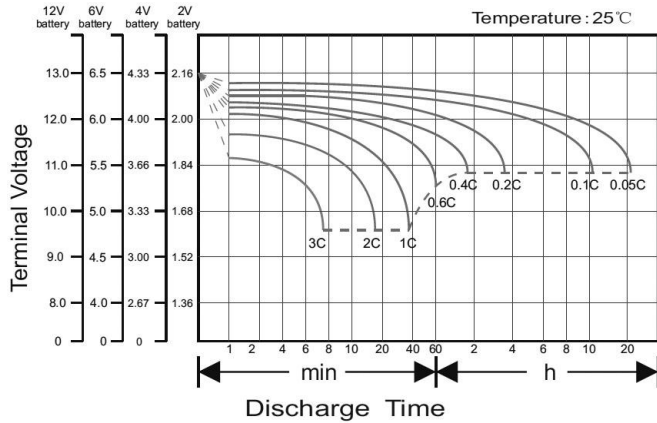
| Characteristics | | | Main Advantages |
|-------------------------|--|--|--|
| Capacity | 10 hour rate (42.2A to 1.80v/cell) 5 hour rate (74.8A to 1.70v/cell) 3 hour rate (109A to 1.70v/cell) 1hour rate (252A to 1.60v/cell) | 422Ah 374Ah 327Ah 252Ah | >> adopt tubular plate with GEL technology >> longest lifespan under deep discharge >> Strong temperature resistance performance >> Better charge reception capability >> 20 years design life |
| Operating Temp. Range | Discharge : -40℃~55℃ Charge : -15℃~50℃ Storage : -20℃~40℃ | | |
| Max. Discharge Current | 2000A(5sec) | | |
| Short Circuit Current | 4500A | | |
| Designed life | 20 years (floating) at 25℃(77 °F) | | |
| Internal Resistance | Full charged battery (25℃,77 °F) 0.55mΩ | | |
| Constant Voltage Charge | Cycle | Initial Charging Current less than :≤100A Voltage: 2.35~2.40V at 25℃ (77 °F) Temperature Coefficient -5mV/℃ | |
| | Standby | No limit on Initial Charging Current Voltage: 2.23V at 25℃ (77 °F) Temperature Coefficient -3mV/℃ | |

CONSTANT CURRENT DISCHARGE RATING A@25℃

| F.V/TIME | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 8h | 10h |
|----------|-------|-------|-----|-----|-----|----|------|------|------|
| 1.60V | 441 | 347 | 252 | 158 | 113 | 90 | 76.7 | 54.4 | 44.5 |
| 1.65V | 416 | 330 | 237 | 153 | 111 | 89 | 75.8 | 54.0 | 44.3 |
| 1.70V | 393 | 315 | 233 | 149 | 109 | 88 | 74.8 | 53.3 | 44.1 |
| 1.75V | 368 | 298 | 218 | 145 | 107 | 86 | 73.5 | 52.3 | 43.5 |
| 1.80V | 342 | 279 | 208 | 141 | 105 | 84 | 71.8 | 51.0 | 42.2 |

CONSTANT POWER DISCHARGE RATING WATT PER CELL@25℃

| F.V/TIME | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 8h | 10h |
|----------|-------|-------|-----|-----|-----|-----|-------|-------|------|
| 1.60V | 760 | 609 | 460 | 294 | 214 | 171 | 145.5 | 104.0 | 85.3 |
| 1.65V | 727 | 578 | 433 | 288 | 211 | 168 | 144.3 | 103.3 | 85.1 |
| 1.70V | 687 | 554 | 426 | 281 | 208 | 167 | 142.8 | 102.5 | 84.8 |
| 1.75V | 649 | 531 | 407 | 275 | 205 | 165 | 140.9 | 100.8 | 84.0 |
| 1.80V | 613 | 510 | 391 | 269 | 202 | 161 | 138.2 | 98.5 | 81.7 |



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