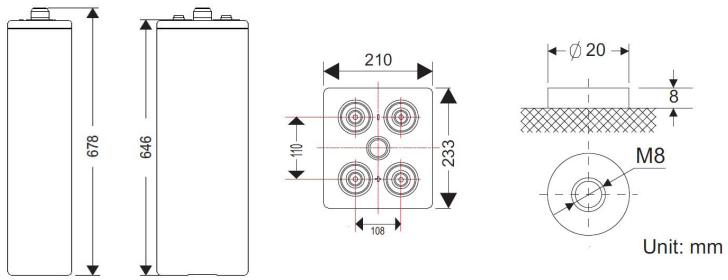
# Shimastu OPzV1000 Tubular GEL Battery

MH28269 ISO 9001 ISO 14001

## PHYSICAL SPECIFICATION

| | | |
|---|---|---|
| Nominal Voltage<br>Nominal Capacity (10HR) | | 2V<br>1000Ah |
| Dimension | Length<br>Width<br>Container Height<br>Total Height | 233±2mm (9.17 inches)<br>210±2mm (8.27 inches)<br>646±2mm (25.43 inches)<br>678±2mm (26.69 inches) |
| Weight | | Approx. 78.0Kg ±3% (171.91lbs) |
| Standard Terminal | | Bolt-and-nuts terminal<br>Bolt Type: M8 |



## ELECTRICAL SPECIFICATION

### Characteristics

| | | |
|---|---|---|
| Capacity | 10 hour rate (101A t0 1.80v/cell)<br>5 hour rate (178A t0 1.70v/cell)<br>3 hour rate (260A t0 1.70v/cell)<br>1hour rate (600A t0 1.60v/cell) | 1010Ah<br>890Ah<br>780Ah<br>600Ah |
| Operating Temp. Range | Discharge : -40℃~55℃<br>Charge : -15℃~50℃<br>Storage : -15℃~40℃ | |
| Max. Discharge Current | 5000A(5sec) | |
| Short Circuit Current | 8800A | |
| Designed life | 20 years ( floating ) at 25℃(77 ⁰F) | |
| Internal Resistance | Full charged battery (25℃,77 ⁰F) 0.38mΩ | |
| Constant Voltage Charge – Cycle | Initial Charging Current less than :≤250.0A<br>Voltage: 2.35~2.40V at 25℃ (77 ⁰F )<br>Temperature Coefficient –5mV/℃ | |
| Constant Voltage Charge – Standby | No limit on Initial Charging Current<br>Voltage: 2.23V at 25℃ (77 ⁰F )<br>Temperature Coefficient –3mV/℃ | |

### Main Advantages

- >> adopt tubular plate with GEL technology
- >> longest lifespan under deep discharge
- >> Strong temperature resistance performance
- >> Better charge reception capability
- >> 20 years design life

### CONSTANT CURRENT DISCHARGE RATING A@25℃

| F.V/TIME | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 8h | 10h |
|---|---|---|---|---|---|---|---|---|---|
| 1.60V | 1050 | 825 | 600 | 375 | 270 | 215 | 183 | 130 | 106 |
| 1.65V | 990 | 785 | 565 | 365 | 265 | 210 | 181 | 129 | 106 |
| 1.70V | 935 | 750 | 555 | 355 | 260 | 209 | 178 | 127 | 105 |
| 1.75V | 875 | 710 | 520 | 345 | 255 | 205 | 175 | 125 | 104 |
| 1.80V | 815 | 665 | 495 | 335 | 250 | 200 | 171 | 122 | 101 |

### CONSTANT POWER DISCHARGE RATING WATT PER CELL@25℃

| F.V/TIME | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 8h | 10h |
|---|---|---|---|---|---|---|---|---|---|
| 1.60V | 1810 | 1450 | 1095 | 700 | 510 | 408 | 347 | 248 | 203 |
| 1.65V | 1730 | 1375 | 1030 | 685 | 503 | 400 | 344 | 246 | 203 |
| 1.70V | 1635 | 1320 | 1015 | 670 | 495 | 399 | 340 | 244 | 202 |
| 1.75V | 1545 | 1265 | 970 | 655 | 488 | 393 | 336 | 240 | 200 |
| 1.80V | 1460 | 1215 | 930 | 640 | 480 | 385 | 329 | 235 | 195 |

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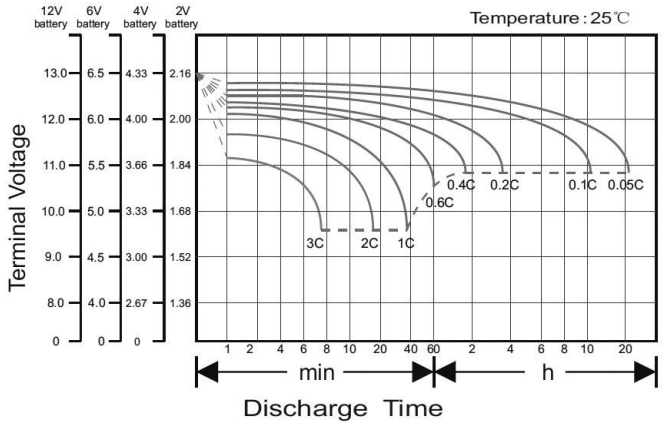


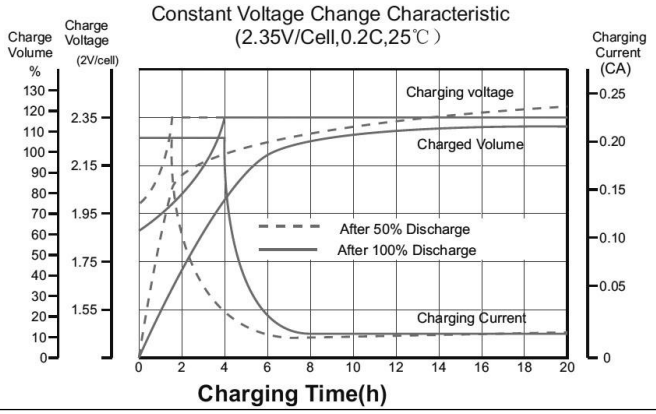


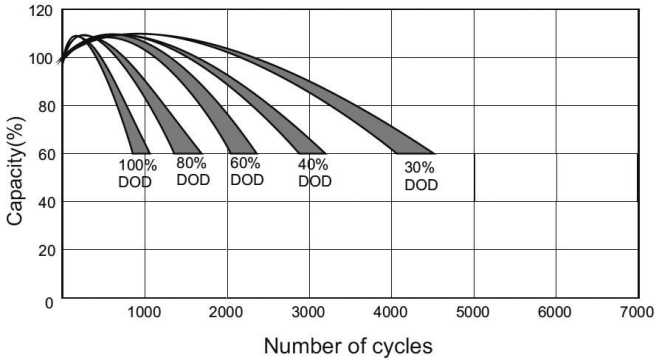


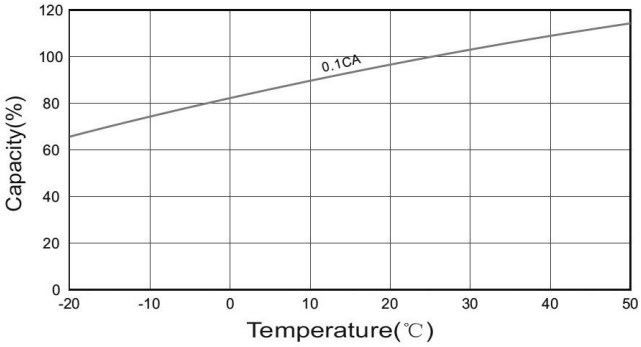


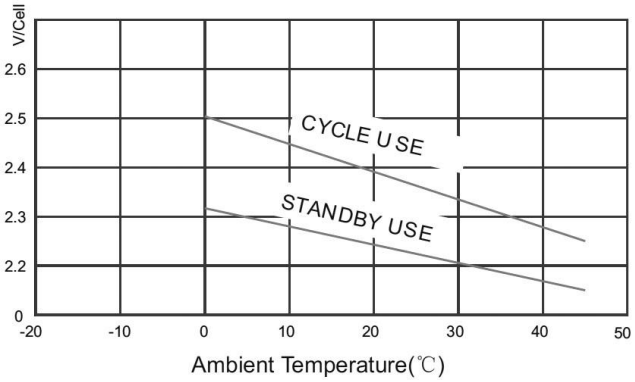


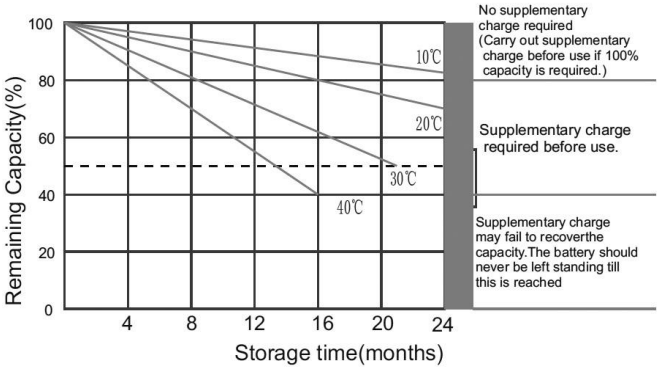


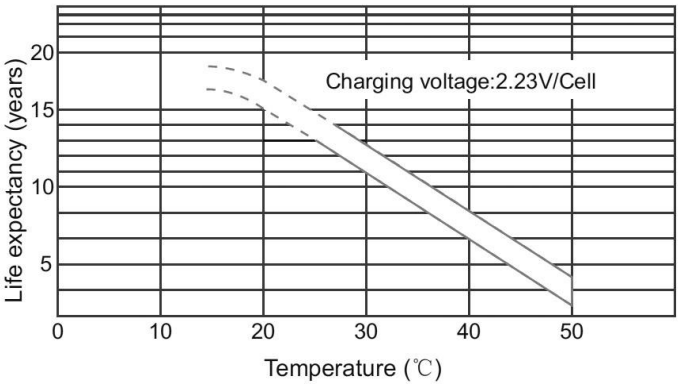


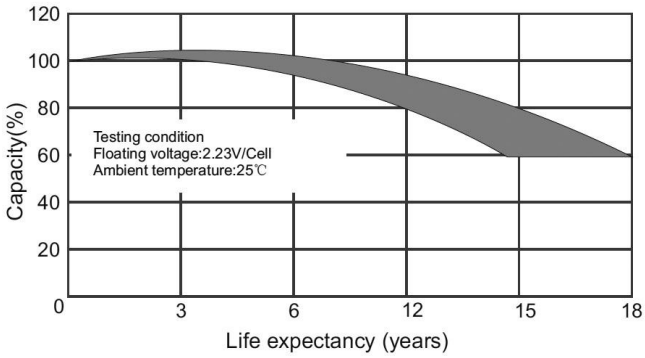


(Note) All above information shall be changed without prior notice, Shimastu reserves the right to explain and update the latest information.


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