

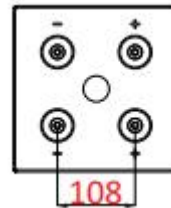
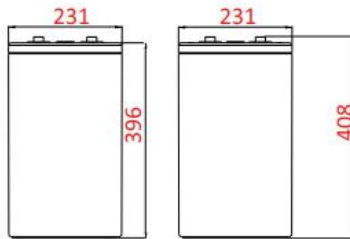


SLC800-2(2V800AH)



PHYSICAL SPECIFICATION

| | | |
|-------------------------|------------------|---|
| Nominal Voltage | | 2V |
| Nominal Capacity (10HR) | | 800Ah |
| Dimension | Length | 231±2mm (9.09 inches) |
| | Width | 231±2mm (9.09 inches) |
| | Container Height | 396±2mm (15.59 inches) |
| | Total Height | 408±2mm (16.06 inches) |
| Weight | | Approx. 60 Kg (132.2lbs) ±5% |
| Standard Terminal | | Bolt-and-nuts terminal Bolt Type: M8 |



ELECTRICAL SPECIFICATION

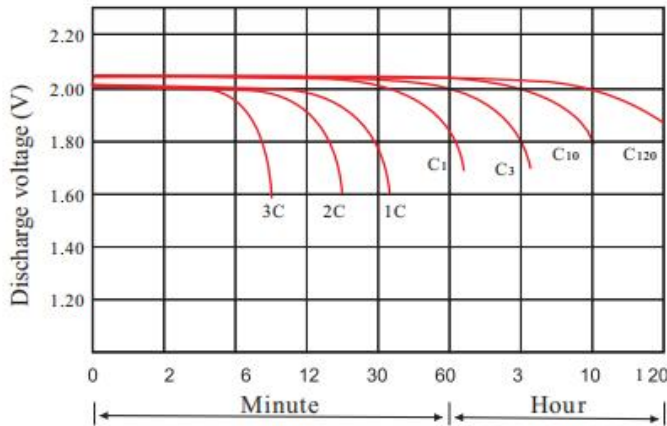
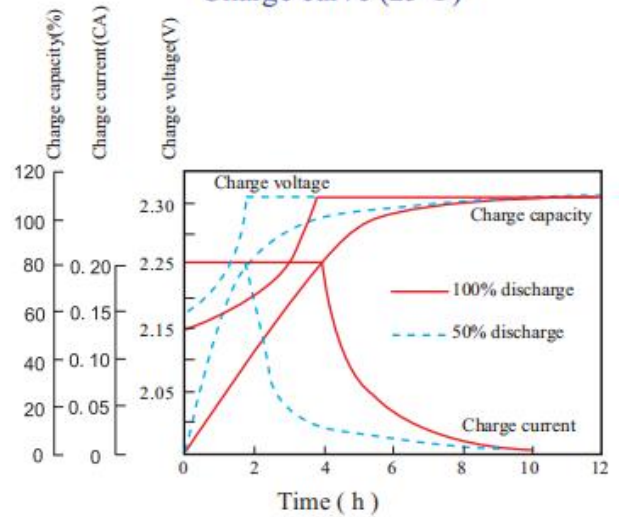
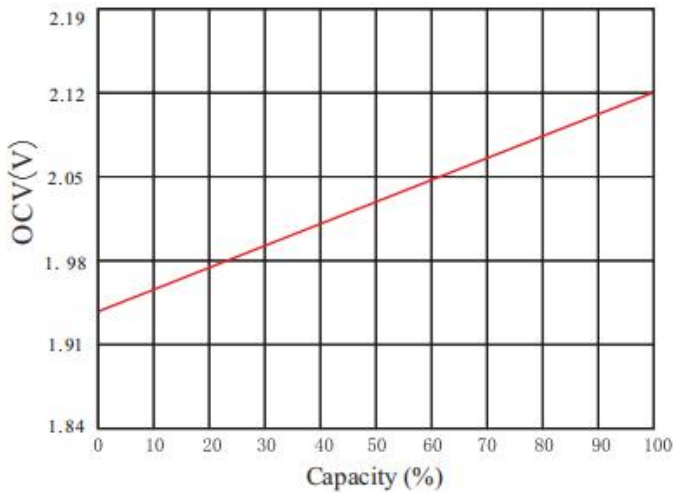
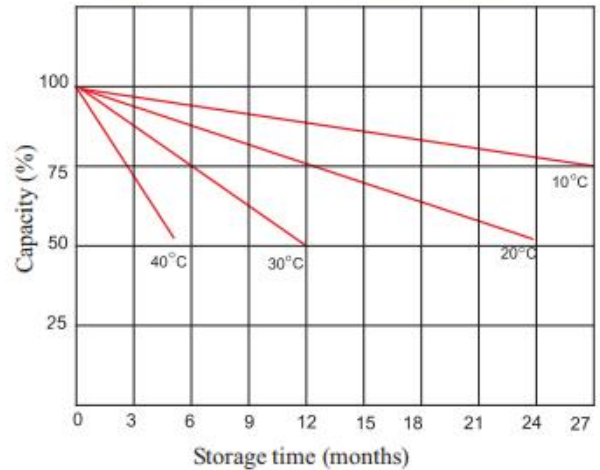
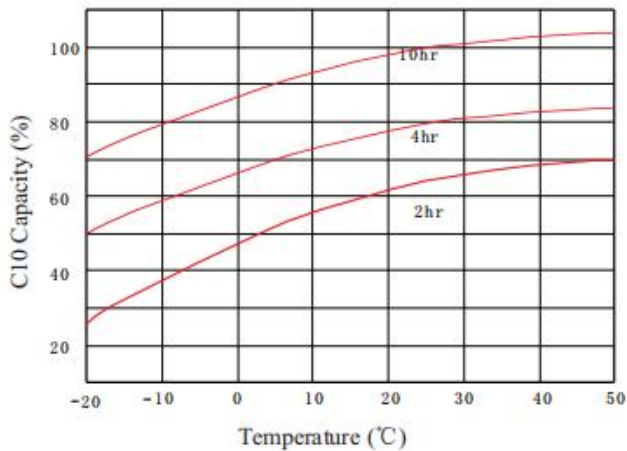
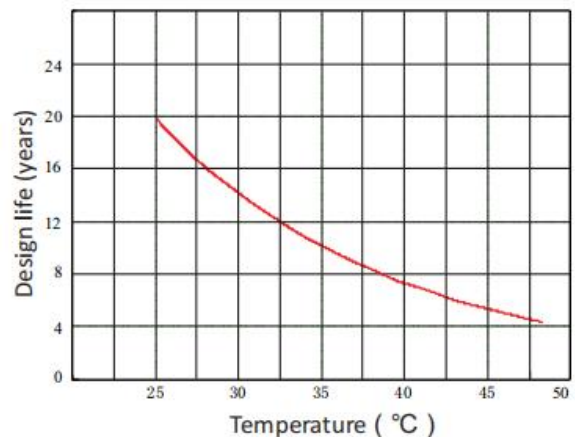
| Characteristics | | | Application |
|--------------------------------|--|-------------------|--|
| Capacity | 120 hour rate (8A to 1.85V/cell) 10 hour rate (80A to 1.80V/cell) | 960Ah 800Ah | <ul style="list-style-type: none"> ● Home energy storage system ● Smart power grids and microgrid system ● Distributed energy storage system ● Hybrid energy storage system such as solar and wind ● Solar power generation grid/off-grid energy storage system ● Emergency lighting system ● Generator and battery hybrid energy system ● Other standby, cycling system |
| Operating Temp. Range | Operation(recommended):15°C~25°C Operation(maximum):-40°C~50°C | | |
| Designed life | 20 years (floating) at 25°C(77 °F) | | |
| Internal Resistance | 0.18 mΩ | | |
| Short-Circuit Current | 10873A | | |
| Max. charging current | 240A | | |
| Max. constant charging current | 160A | | |
| Constant Voltage Charge | Cycle | 2.30V/cell (25°C) | |
| | Floating | 2.25V/cell (25°C) | |

CONSTANT CURRENT DISCHARGE RATING A@25°C

| F.V/TIME | 1h | 3h | 5h | 8h | 10h | 24h | 48h | 72h | 120h |
|----------|-------|-------|-------|-------|------|------|------|------|------|
| 1.75V | 442.8 | 214.3 | 146.0 | 100.3 | 83.6 | 37.7 | 19.3 | 13.2 | 8.40 |
| 1.80V | 420.6 | 209.5 | 142.7 | 98.4 | 82.5 | 36.9 | 19.0 | 13.0 | 8.30 |
| 1.83V | 396.8 | 203.2 | 140.5 | 97.8 | 82.1 | 36.9 | 18.9 | 12.9 | 8.20 |
| 1.85V | 371.4 | 192.2 | 133.7 | 94.4 | 79.2 | 35.8 | 18.2 | 12.5 | 8.00 |
| 1.88V | 337.3 | 181.2 | 127.4 | 91.0 | 76.2 | 34.8 | 17.6 | 12.0 | 7.60 |

CONSTANT POWER DISCHARGE RATING WATT PER CELL@25°C

| F.V/TIME | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 8h | 10h |
|----------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 1.75V | 1973 | 1224.5 | 897.8 | 566.4 | 446.9 | 357.5 | 301.9 | 216.9 | 182.7 |
| 1.80V | 1856 | 1144.5 | 826.5 | 545.6 | 433.3 | 351.9 | 293.9 | 212.1 | 179.5 |
| 1.83V | 1748 | 1069.6 | 773.0 | 525.5 | 423.6 | 342.4 | 286.0 | 206.5 | 176.4 |
| 1.85V | 1632 | 988.5 | 708.2 | 505.5 | 409.2 | 332.8 | 278.0 | 200.0 | 170.0 |
| 1.88V | 1517 | 891.3 | 648.2 | 479.8 | 386.7 | 319.3 | 270.1 | 194.6 | 165.2 |

Discharge curve at different rate (25 °C)

Charge curve (25 °C)

Capacity vs OCV curve

Residue capacity vs storage time

Capacity vs temperature curve

Design life vs temperature


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