

Specifications

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|---|--------------|--|
| Nominal Voltage | | 2 V |
| Capacity (25°C) | 10HR(1.80V) | 450 Ah |
| | 3HR(1.75V) | 345Ah |
| | 1HR(1.75V) | 254Ah |
| Dimension | Length | 210±2mm (8.27inch) |
| | Width | 171±2mm (6.73inch) |
| | Height | 330±2mm (12.99inch) |
| | Total Height | 367±2mm (14.45inch) |
| Approx. Weight | | 27.5kg (60.6lbs)±4% |
| Terminal type | | T10 |
| Internal resistance (Fully charged, 25°C) | | Approx. 0.5m Ω |
| Capacity affected by temperature (10HR) | 40°C | 102% |
| | 25°C | 100% |
| | 0°C | 85% |
| | -15°C | 65% |
| Self-discharge (25°C) | 3 month | Remaining Capacity: 91% |
| | 6 month | Remaining Capacity: 82% |
| | 12 month | Remaining Capacity: 65% |
| Nominal operating temperature | | 25°C ± 3°C (77°F ± 5°F) |
| Operating temperature range | Discharge | -15°C ~ 50°C (5°F ~ 122°F) |
| | Charge | -10°C ~ 50°C (14°F ~ 122°F) |
| | Storage | -20°C ~ 50°C (-4°F ~ 122°F) |
| Float charging voltage(25°C) | | 2.25 to 2.30V Temperature compensation: -3mV/°C |
| Cyclic charging voltage(25°C) | | 2.42 to 2.48V Temperature compensation: -5mV/°C |
| Maximum charging current | | 90A |
| Terminal material | | Copper |
| Maximum discharge current | | 3000A(5 sec.) |
| Designed floating life(20°C) | | 20 years |

- ◆ Absorbent glass mat technology;
- ◆ Recognized by UL & CE;
- ◆ ABS container.

Constant Current Discharge Characteristics (A, 25°C)

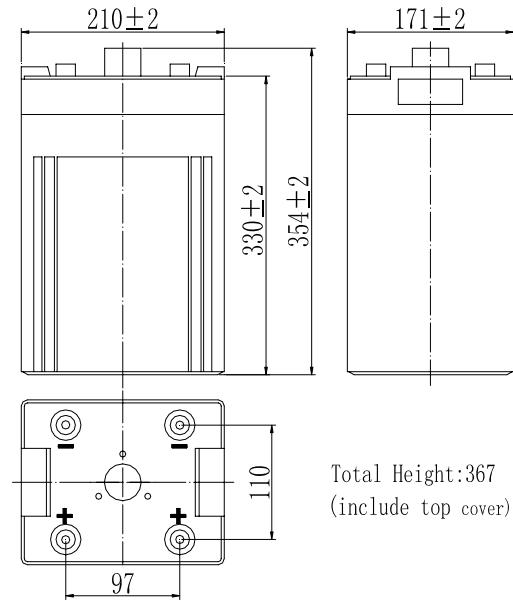
| F.V/TIME | 30min | 60min | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h | 24h |
|----------|-------|-------|-----|-----|------|------|------|------|------|------|------|
| 1.60V | 405 | 270 | 164 | 117 | 94.1 | 81.7 | 70.2 | 55.1 | 45.8 | 24.1 | 20.8 |
| 1.65V | 397 | 266 | 163 | 116 | 93.5 | 81.2 | 69.8 | 54.8 | 45.7 | 24.0 | 20.8 |
| 1.70V | 385 | 259 | 162 | 116 | 92.9 | 80.7 | 69.3 | 54.4 | 45.6 | 23.9 | 20.7 |
| 1.75V | 375 | 254 | 160 | 115 | 92.3 | 80.1 | 68.9 | 54.0 | 45.3 | 23.8 | 20.6 |
| 1.80V | 362 | 246 | 156 | 111 | 89.5 | 77.7 | 66.8 | 52.4 | 45.0 | 23.6 | 20.5 |

Constant Power Discharge Characteristics (Watt, 25°C)

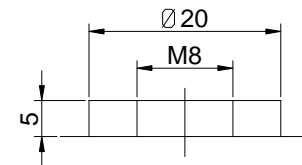
| F.V/TIME | 30min | 60min | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h | 24h |
|----------|-------|-------|-----|-----|-----|-----|-----|-----|------|------|------|
| 1.60V | 757 | 513 | 317 | 229 | 184 | 161 | 138 | 110 | 91.2 | 48.1 | 41.9 |
| 1.65V | 742 | 505 | 315 | 228 | 183 | 160 | 138 | 109 | 91.0 | 48.0 | 41.8 |
| 1.70V | 719 | 492 | 313 | 226 | 182 | 159 | 137 | 108 | 90.7 | 47.9 | 41.7 |
| 1.75V | 702 | 483 | 308 | 225 | 181 | 158 | 136 | 107 | 90.2 | 47.6 | 41.4 |
| 1.80V | 676 | 468 | 300 | 218 | 175 | 153 | 132 | 104 | 89.6 | 47.3 | 41.2 |

Note: The above characteristics data can be obtained within three charge/discharge cycles.

Dimensions

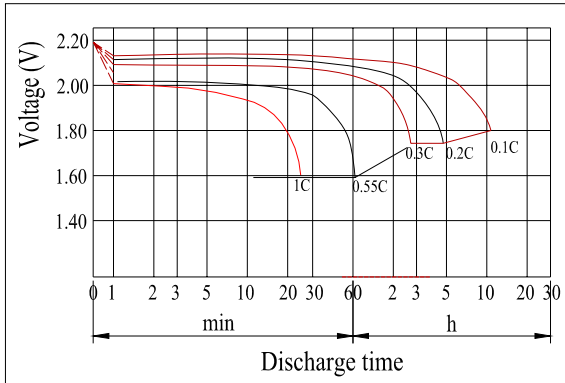


Terminal

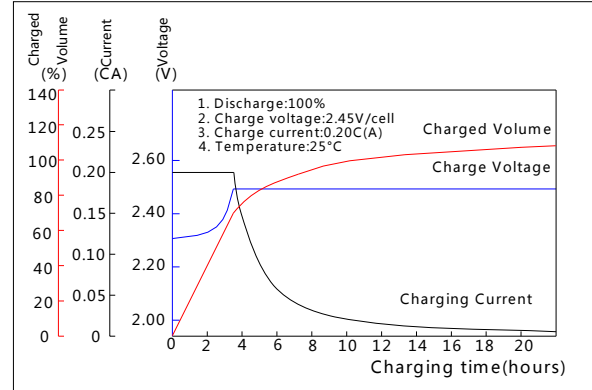


Terminal T10

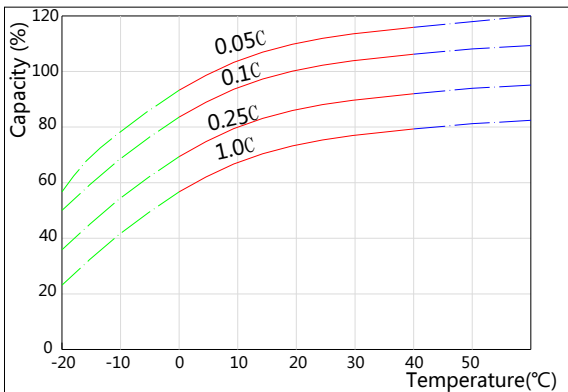
Discharge Characteristics(25°C)



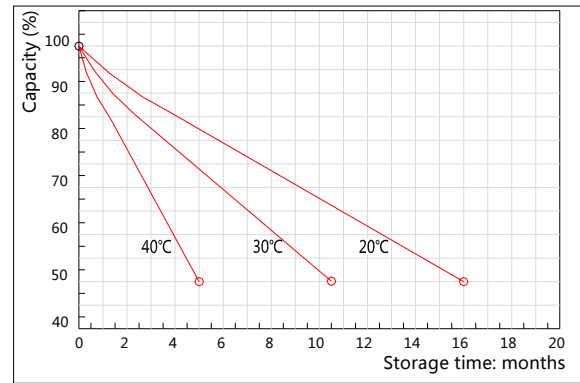
Charging Characteristics(25°C)



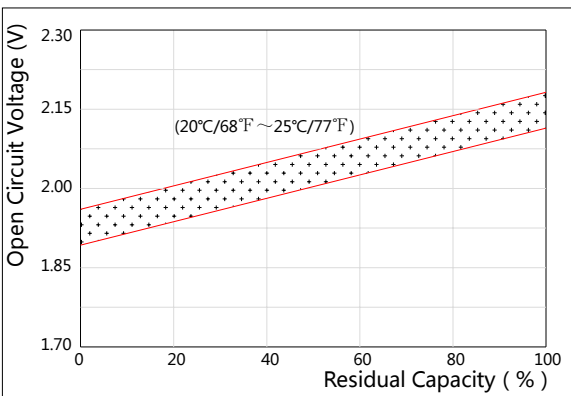
Effect of Temperature on Capacity



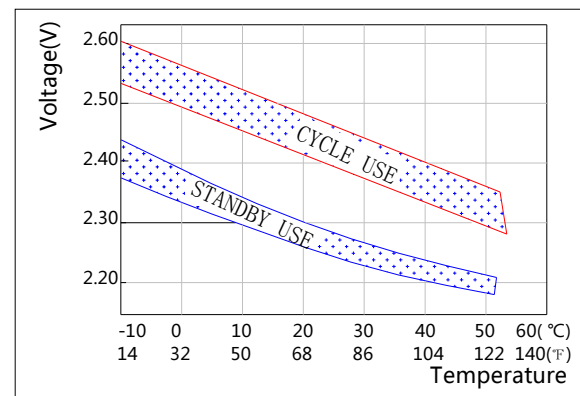
Self-discharge Characteristics



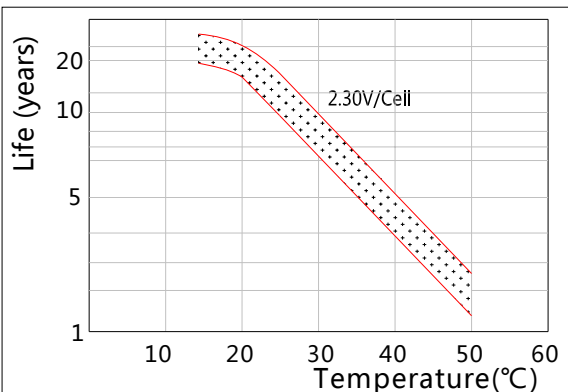
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

