

Specifications

| | | |
|---|--------------|---|
| Nominal Voltage | | 12 V |
| Capacity (25°C) | 10HR(10.8V) | 9.0Ah |
| | 5HR(10.5V) | 8.4Ah |
| | 1HR(9.60V) | 6.4Ah |
| Dimension | Length | 151 ± 1.5mm (5.94inch) |
| | Width | 65 ± 1mm (2.56inch) |
| | Height | 94 ± 1mm (3.70inch) |
| | Total Height | 100 ± 1mm (3.94inch) |
| Approx. Weight | | 2.65kg (5.84lbs) ± 5% |
| Terminal type | | T1/T2 |
| Internal resistance (Fully charged, 25°C) | | Approx. 19m Ω |
| Capacity affected by temperature (20HR) | 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) | | 13.60 to 13.80V Temperature compensation: -18mV/°C |
| Cyclic charging voltage(25°C) | | 14.50 to 14.90V Temperature compensation: -30mV/°C |
| Maximum charging current | | 2.7A |
| Terminal material | | Copper |
| Maximum discharge current | | 135A(5 sec.) |
| Designed floating life(20°C) | | 15 years |

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

Constant Current Discharge Characteristics (A, 25 °C)

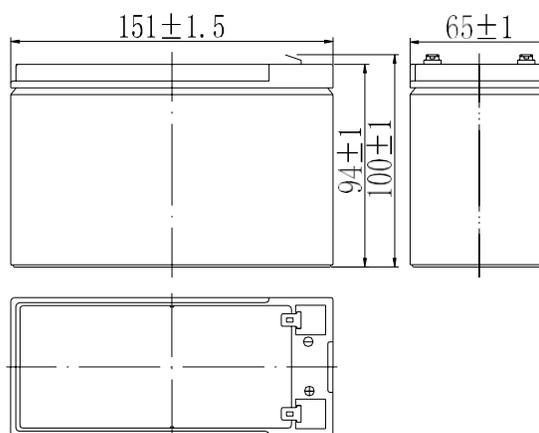
| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 10h | 20h |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|------|
| 9.60V | 36.4 | 23.0 | 18.4 | 10.3 | 6.42 | 3.51 | 2.52 | 2.02 | 1.71 | 0.93 | 0.48 |
| 9.90V | 35.3 | 22.3 | 18.0 | 10.1 | 6.32 | 3.49 | 2.50 | 2.01 | 1.70 | 0.93 | 0.47 |
| 10.2V | 33.9 | 21.4 | 17.3 | 9.75 | 6.17 | 3.46 | 2.49 | 1.99 | 1.69 | 0.92 | 0.47 |
| 10.5V | 32.4 | 20.4 | 16.7 | 9.52 | 6.04 | 3.40 | 2.47 | 1.98 | 1.68 | 0.92 | 0.47 |
| 10.8V | 30.6 | 19.3 | 15.8 | 9.16 | 5.86 | 3.31 | 2.39 | 1.92 | 1.62 | 0.90 | 0.46 |

Constant Power Discharge Characteristics (Watt, 25 °C)

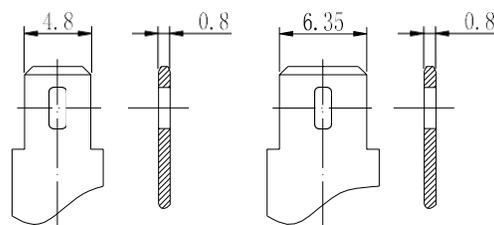
| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 10h | 20h |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|------|
| 9.60V | 406 | 259 | 210 | 117 | 74.3 | 41.0 | 30.0 | 24.0 | 20.4 | 11.2 | 5.75 |
| 9.90V | 394 | 251 | 204 | 115 | 73.2 | 40.8 | 29.7 | 23.8 | 20.3 | 11.2 | 5.73 |
| 10.2V | 378 | 241 | 198 | 112 | 71.3 | 40.5 | 29.5 | 23.7 | 20.2 | 11.1 | 5.69 |
| 10.5V | 361 | 230 | 190 | 109 | 69.9 | 39.8 | 29.3 | 23.5 | 20.1 | 11.0 | 5.66 |
| 10.8V | 341 | 218 | 180 | 105 | 67.8 | 38.9 | 28.4 | 22.8 | 19.4 | 10.8 | 5.55 |

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

Dimensions



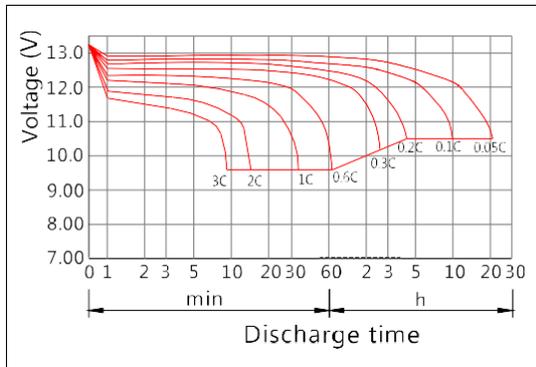
Terminal



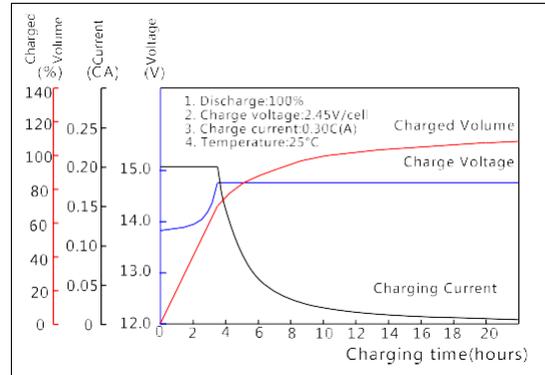
Terminal T1

Terminal T2

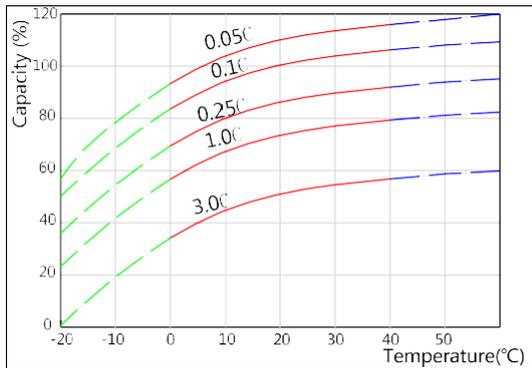
Discharge Characteristics (25 °C)



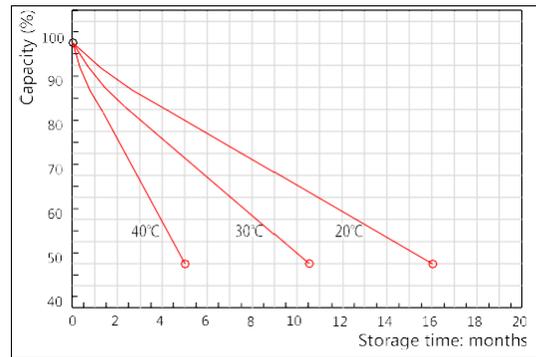
Charging Characteristics (25 °C)



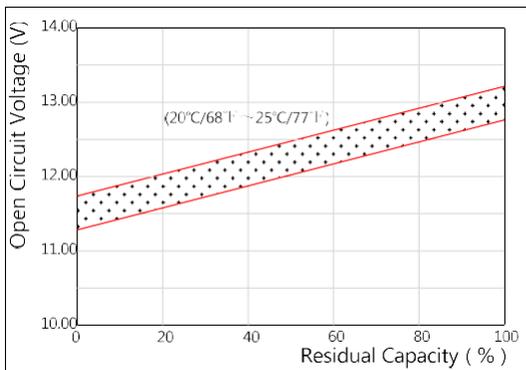
Effect of Temperature on Capacity



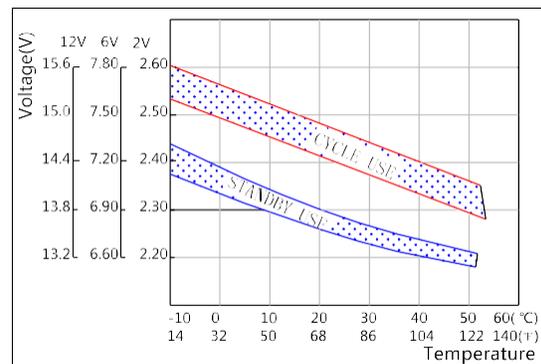
Self-discharge Characteristics



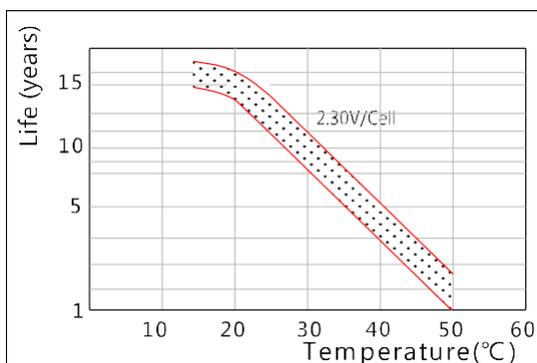
The Relationship for Open Circuit Voltage and Residual Capacity (25 °C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25 °C)

