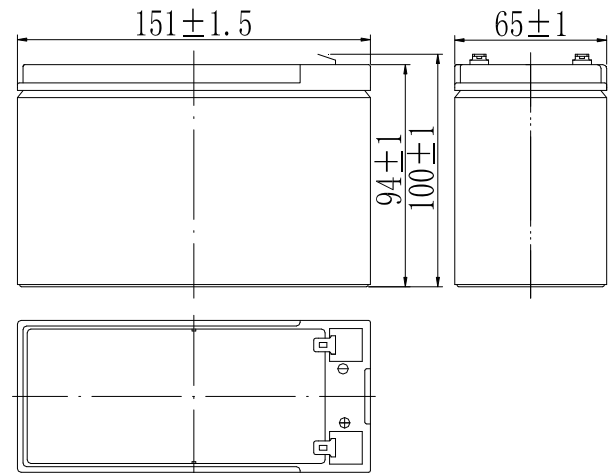


Specifications

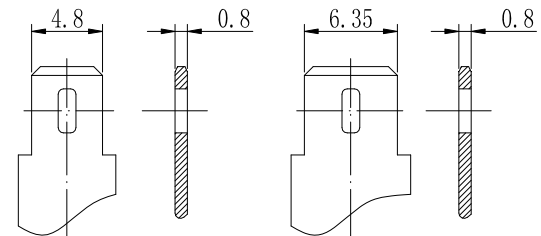
| | | |
|-------------------------------------------|--------------|-------------------------------------------------------|
| Nominal Voltage | | 12 V |
| Capacity (25°C) | 10HR(10.8V) | 7.0Ah |
| | 5HR(10.5V) | 6.35Ah |
| | 1HR(9.60V) | 4.86Ah |
| Dimension | Length | 151 ± 1.5mm (5.94inch) |
| | Width | 65 ± 1mm (2.56inch) |
| | Height | 94 ± 1mm (3.70inch) |
| | Total Height | 100 ± 1mm (3.94inch) |
| Approx. Weight | | 2.35kg (5.18lbs) ± 5% |
| Terminal type | | T1/T2 |
| Internal resistance (Fully charged, 25°C) | | Approx. 28mΩ |
| 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 | | 2.1A |
| Terminal material | | Copper |
| Maximum discharge current | | 105A(5 sec.) |
| Designed floating life(20°C) | | 15 years |



Dimensions



Terminal



Terminal T1

Terminal T2

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

Constant Current Discharge Characteristics (A, 25°C)

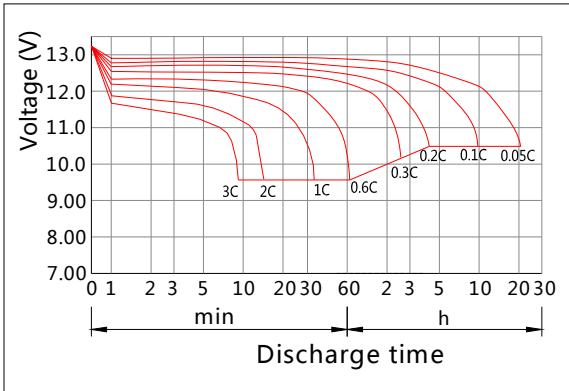
| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 10h | 20h |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|-------|
| 9.60V | 27.8 | 17.5 | 14.0 | 7.83 | 4.86 | 2.65 | 1.91 | 1.53 | 1.29 | 0.72 | 0.370 |
| 9.90V | 26.9 | 17.0 | 13.7 | 7.67 | 4.78 | 2.64 | 1.90 | 1.52 | 1.29 | 0.72 | 0.370 |
| 10.2V | 25.8 | 16.3 | 13.2 | 7.43 | 4.67 | 2.62 | 1.88 | 1.51 | 1.28 | 0.71 | 0.370 |
| 10.5V | 24.7 | 15.6 | 12.7 | 7.25 | 4.57 | 2.58 | 1.87 | 1.50 | 1.27 | 0.71 | 0.365 |
| 10.8V | 23.3 | 14.7 | 12.1 | 6.99 | 4.43 | 2.51 | 1.81 | 1.45 | 1.23 | 0.70 | 0.365 |

Constant Power Discharge Characteristics (Watt, 25°C)

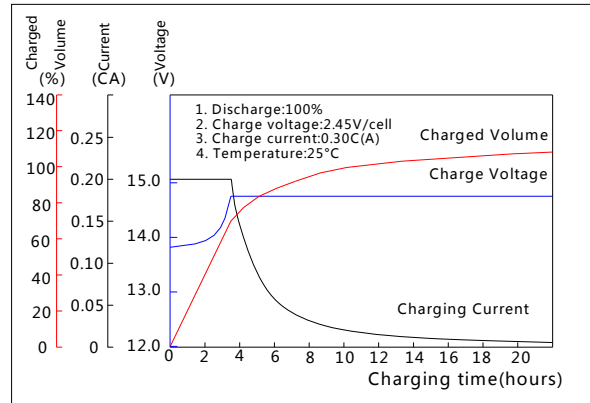
| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 10h | 20h |
|----------|------|-------|-------|-------|-------|------|------|------|------|-----|------|
| 9.60V | 310 | 197 | 160 | 89.6 | 56.3 | 31.1 | 22.7 | 18.1 | 15.5 | 8.5 | 4.41 |
| 9.90V | 300 | 192 | 156 | 87.8 | 55.5 | 30.9 | 22.5 | 18.0 | 15.4 | 8.4 | 4.40 |
| 10.2V | 288 | 183 | 151 | 85.2 | 54.0 | 30.7 | 22.4 | 17.9 | 15.3 | 8.4 | 4.38 |
| 10.5V | 276 | 176 | 145 | 83.2 | 52.9 | 30.1 | 22.2 | 17.8 | 15.2 | 8.3 | 4.35 |
| 10.8V | 260 | 167 | 138 | 80.1 | 51.3 | 29.4 | 21.5 | 17.3 | 14.7 | 8.2 | 4.30 |

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

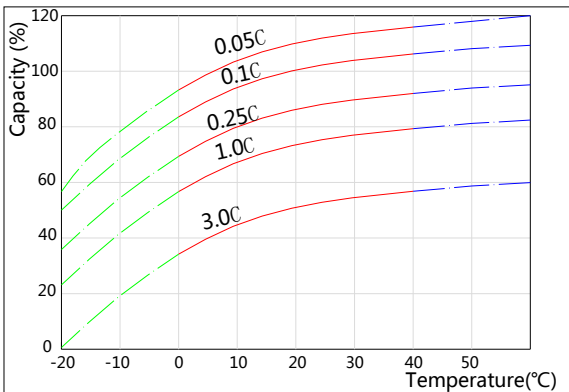
Discharge Characteristics(25°C)



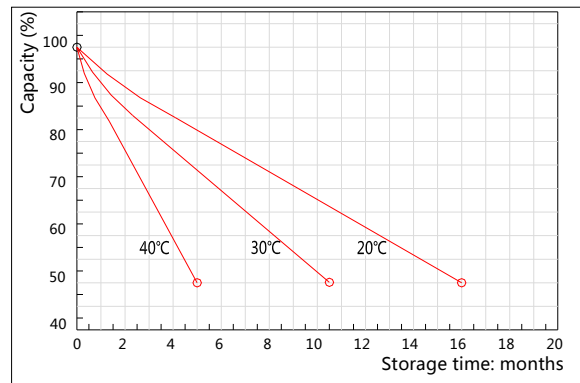
Charging Characteristics(25°C)



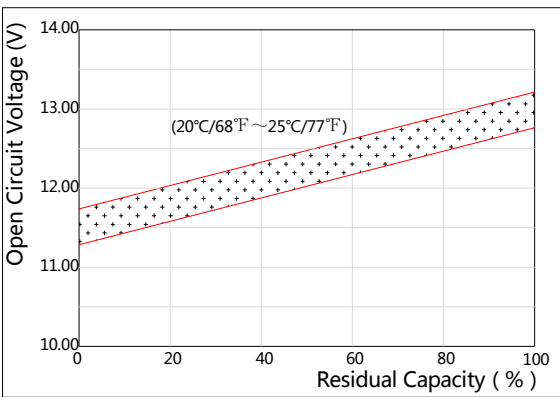
Effect of Temperature on Capacity



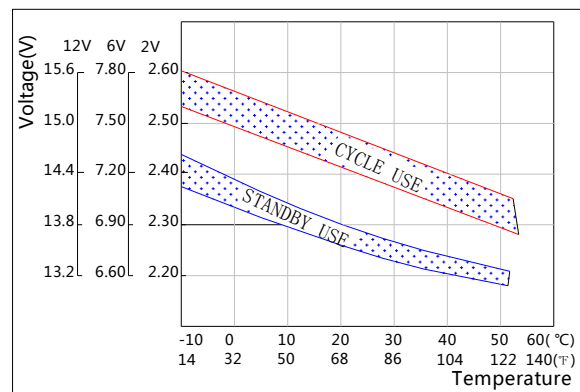
Self-discharge Characteristics



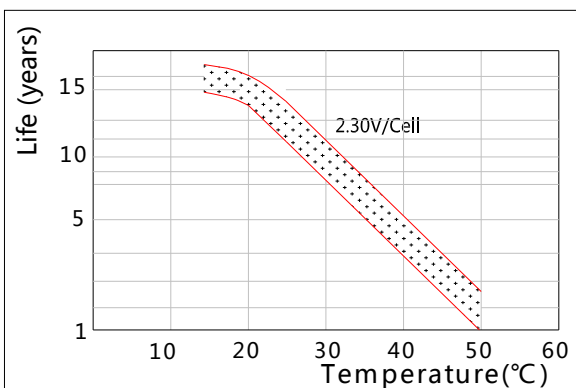
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

