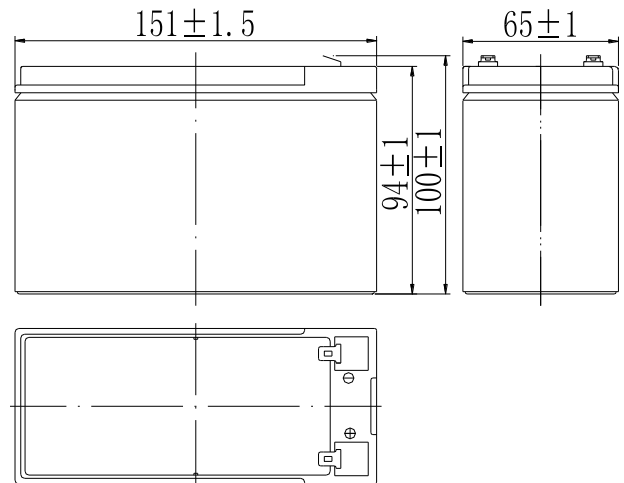


Specifications

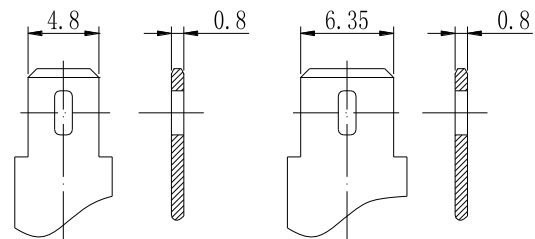
| | | |
|---|--------------|---|
| Nominal Voltage | | 12 V |
| Capacity (25°C) | 20HR(10.5V) | 7Ah |
| | 10HR(10.5V) | 6.5Ah |
| | 1HR(9.60V) | 4.5Ah |
| Dimension | Length | 151 ± 1.5mm (5.94inch) |
| | Width | 65 ± 1mm (2.56inch) |
| | Height | 94 ± 1mm (3.70inch) |
| | Total Height | 100 ± 1mm (3.94inch) |
| Approx. Weight | | 2.15kg (4.74lbs) ± 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) | | 10 years |



Dimensions



Terminal



Terminal T1

Terminal T2

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

Constant Current Discharge Characteristics (A, 25°C)

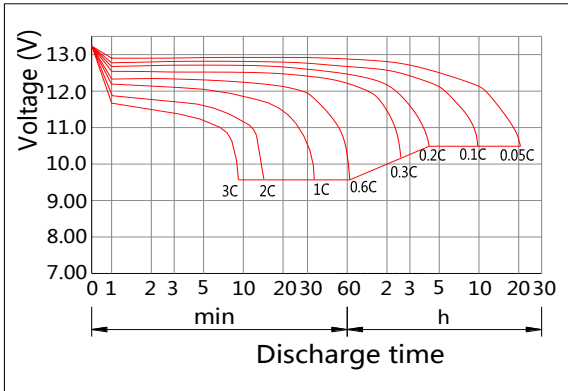
| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 10h | 20h |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|------|
| 9.60V | 26.6 | 16.8 | 13.3 | 7.42 | 4.55 | 2.49 | 1.79 | 1.43 | 1.21 | 0.66 | 0.36 |
| 9.90V | 25.8 | 16.3 | 13.0 | 7.27 | 4.48 | 2.47 | 1.77 | 1.42 | 1.21 | 0.66 | 0.35 |
| 10.2V | 24.7 | 15.6 | 12.5 | 7.05 | 4.37 | 2.45 | 1.76 | 1.41 | 1.20 | 0.65 | 0.35 |
| 10.5V | 23.7 | 15.0 | 12.1 | 6.88 | 4.28 | 2.41 | 1.75 | 1.40 | 1.19 | 0.65 | 0.35 |
| 10.8V | 22.3 | 14.1 | 11.4 | 6.63 | 4.15 | 2.35 | 1.70 | 1.36 | 1.15 | 0.64 | 0.34 |

Constant Power Discharge Characteristics (Watt, 25°C)

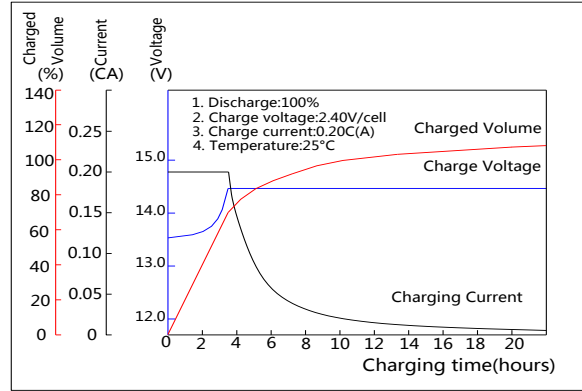
| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 10h | 20h |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|------|
| 9.60V | 297 | 190 | 152 | 85.0 | 52.7 | 29.1 | 21.2 | 17.0 | 14.5 | 7.93 | 4.26 |
| 9.90V | 288 | 184 | 148 | 83.3 | 51.9 | 28.9 | 21.1 | 16.9 | 14.4 | 7.90 | 4.25 |
| 10.2V | 276 | 176 | 143 | 80.8 | 50.6 | 28.7 | 20.9 | 16.8 | 14.3 | 7.86 | 4.23 |
| 10.5V | 264 | 169 | 138 | 78.8 | 49.6 | 28.2 | 20.8 | 16.7 | 14.2 | 7.81 | 4.20 |
| 10.8V | 249 | 159 | 130 | 75.9 | 48.1 | 27.5 | 20.2 | 16.2 | 13.8 | 7.66 | 4.12 |

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

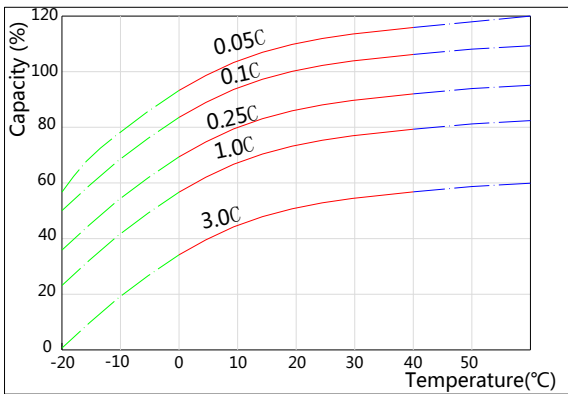
Discharge Characteristics(25°C)



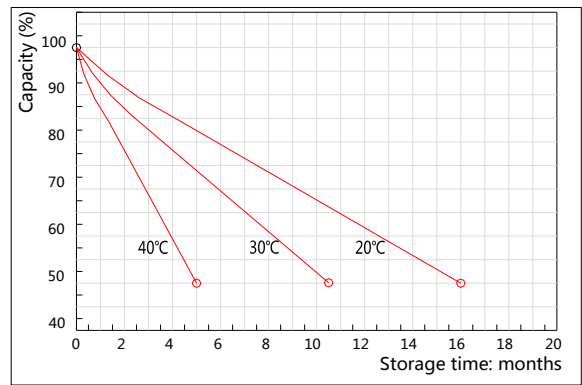
Charging Characteristics(25°C)



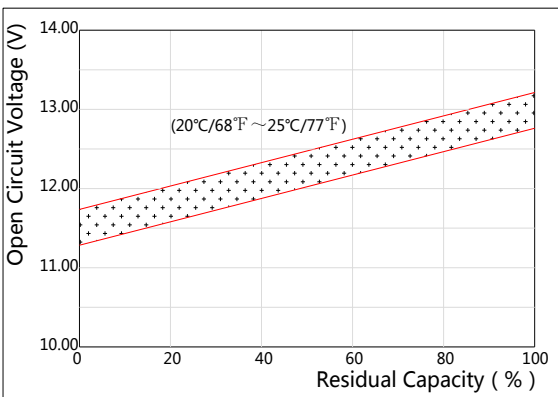
Effect of Temperature on Capacity



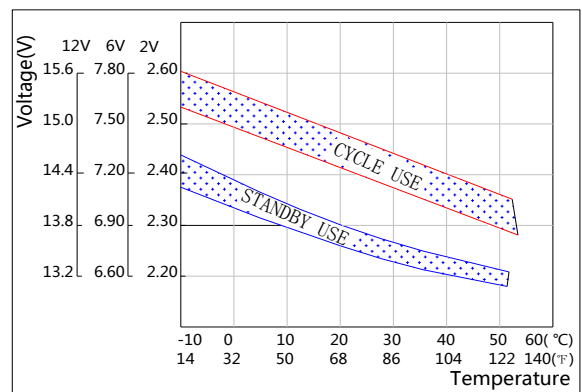
Self-discharge Characteristics



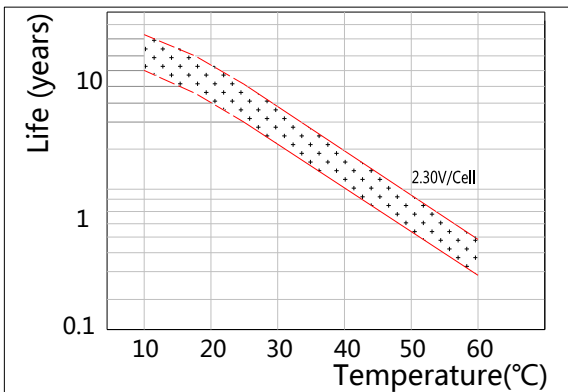
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

