

Specifications

| | | |
|---|--------------|---|
| Nominal Voltage | | 12 V |
| Capacity (25°C) | 20HR(10.5V) | 12Ah |
| | 10HR(10.5V) | 11Ah |
| | 1HR(9.60V) | 7.8Ah |
| Dimension | Length | 151 ± 1.5mm (5.94inch) |
| | Width | 98 ± 1mm (3.86inch) |
| | Height | 95 ± 1mm (3.74inch) |
| | Total Height | 101 ± 1mm (3.98inch) |
| Approx. Weight | | 3.5kg (7.92lbs) ± 5% |
| Terminal type | | T2/T1 |
| 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 | | 3.6A |
| Terminal material | | Copper |
| Maximum discharge current | | 180A(5 sec.) |
| Designed floating life(20°C) | | 10years |

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

Constant Current Discharge Characteristics (A, 25°C)

| F.V/TIME | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 9.60V | 28.8 | 22.8 | 12.7 | 7.80 | 4.26 | 3.06 | 2.45 | 2.08 | 1.35 | 1.13 | 0.61 |
| 9.90V | 27.9 | 22.3 | 12.5 | 7.68 | 4.24 | 3.04 | 2.43 | 2.07 | 1.34 | 1.13 | 0.61 |
| 10.2V | 26.8 | 21.4 | 12.1 | 7.49 | 4.20 | 3.02 | 2.42 | 2.05 | 1.33 | 1.12 | 0.60 |
| 10.5V | 25.6 | 20.7 | 11.8 | 7.34 | 4.14 | 3.00 | 2.40 | 2.04 | 1.32 | 1.12 | 0.60 |
| 10.8V | 24.2 | 19.6 | 11.4 | 7.11 | 4.03 | 2.91 | 2.33 | 1.98 | 1.28 | 1.09 | 0.59 |

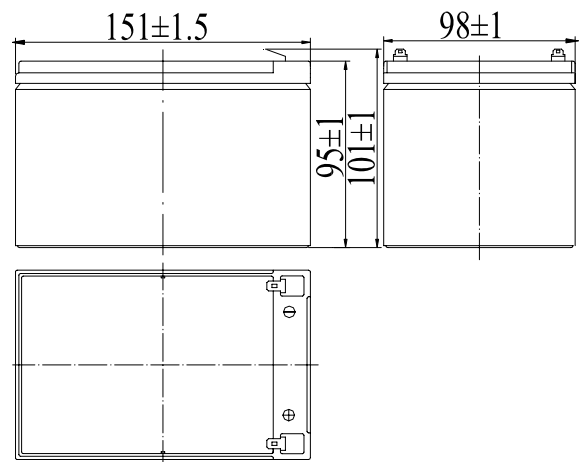
Constant Power Discharge Characteristics (Watt, 25°C)

| F.V/TIME | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 9.60V | 325 | 260 | 146 | 90.3 | 49.9 | 36.4 | 29.2 | 24.8 | 16.2 | 13.6 | 7.31 |
| 9.90V | 315 | 254 | 143 | 89.0 | 49.6 | 36.1 | 29.0 | 24.7 | 16.1 | 13.5 | 7.28 |
| 10.2V | 302 | 244 | 138 | 86.7 | 49.1 | 35.9 | 28.8 | 24.5 | 16.0 | 13.5 | 7.24 |
| 10.5V | 289 | 236 | 135 | 85.0 | 48.4 | 35.6 | 28.6 | 24.4 | 15.8 | 13.4 | 7.20 |
| 10.8V | 273 | 224 | 130 | 82.4 | 47.2 | 34.6 | 27.7 | 23.6 | 15.4 | 13.1 | 7.06 |

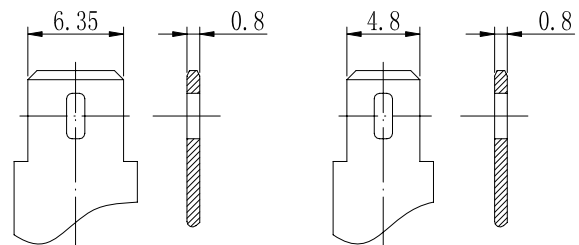
Note: The above characteristics data can be obtained within three charge/discharge cycles.



Dimensions



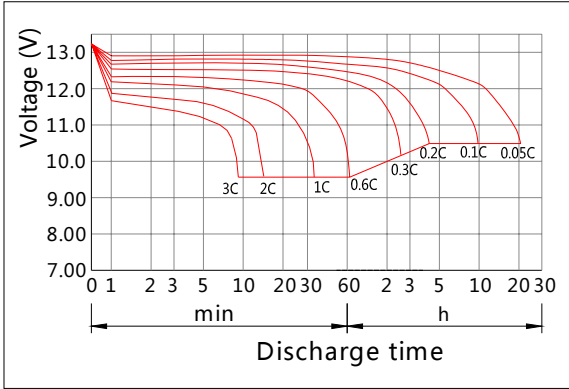
Terminal



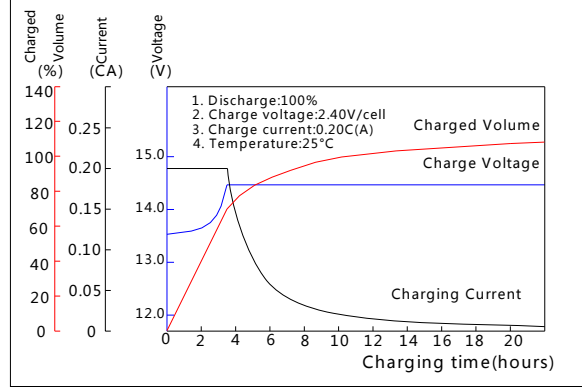
Terminal T2

Terminal T1

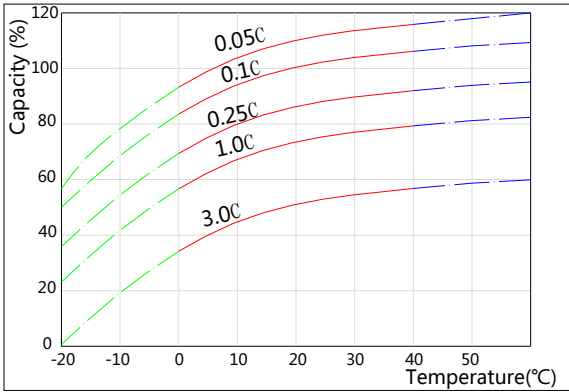
Discharge Characteristics(25°C)



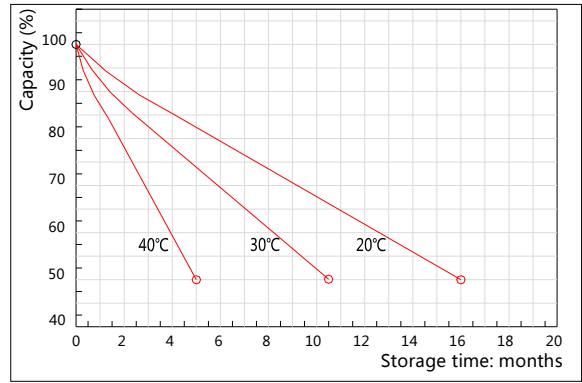
Charging Characteristics(25°C)



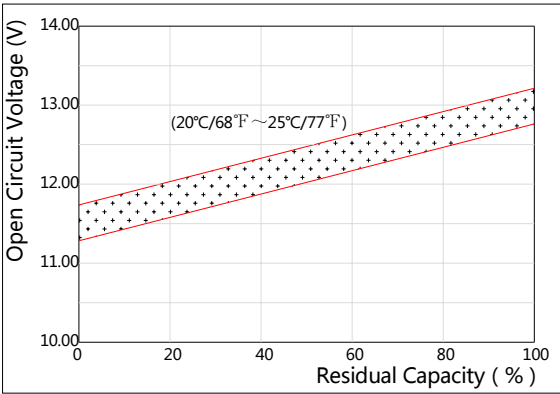
Effect of Temperature on Capacity



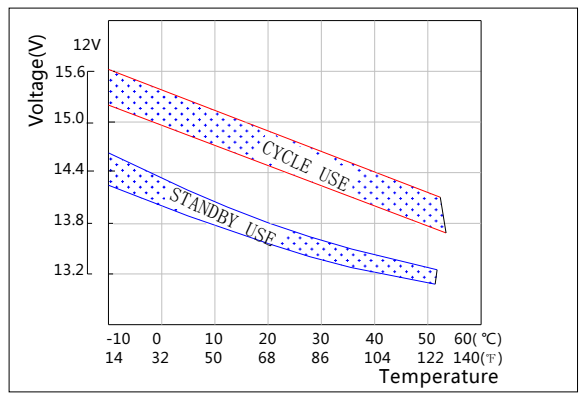
Self-discharge Characteristics



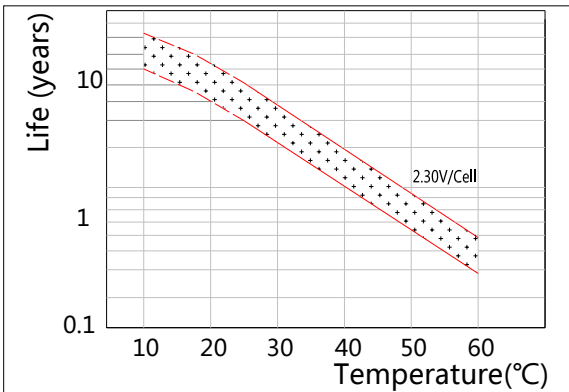
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

