

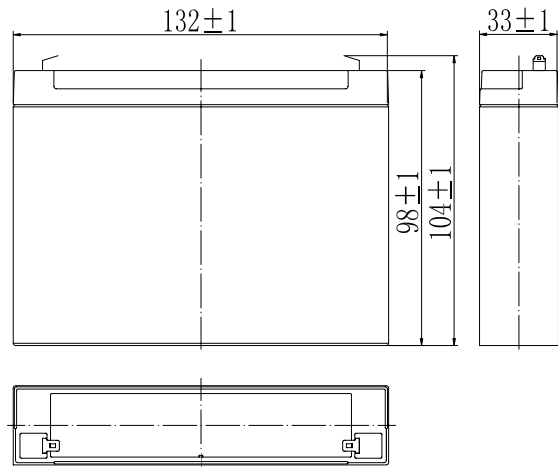
Specifications

| | | |
|---|--------------|---|
| Nominal Voltage | | 12 V |
| Capacity (25°C) | 20HR(10.5V) | 2.8Ah |
| | 10HR(10.5V) | 2.6Ah |
| | 1HR(9.60V) | 1.82Ah |
| Dimension | Length | 132 ± 1mm (5.20inch) |
| | Width | 33 ± 1mm (1.30inch) |
| | Height | 98 ± 1mm (3.86inch) |
| | Total Height | 104 ± 1mm (4.09inch) |
| Approx. Weight | | 1.0kg (2.21lbs) ± 5% |
| Terminal type | | T1 |
| Internal resistance (Fully charged, 25°C) | | Approx. 50mΩ |
| 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 | | 0.84A |
| Terminal material | | Copper |
| Maximum discharge current | | 42A(5 sec.) |
| Designed floating life(20°C) | | 10years |

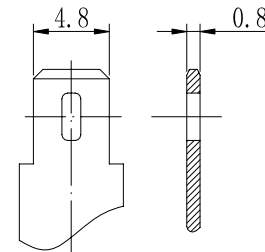


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Dimensions



Terminal



Terminal T1

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

Constant Current Discharge Characteristics (A, 25°C)

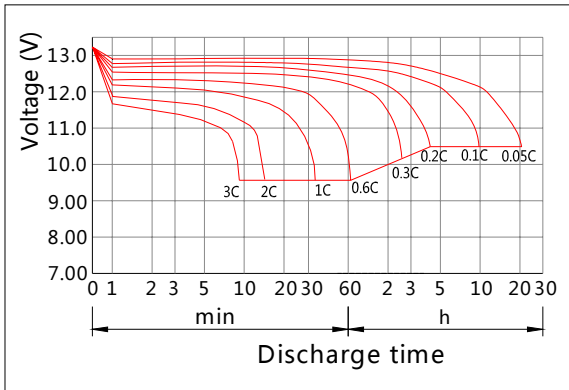
| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 10h | 20h |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|------|
| 9.60V | 10.6 | 6.72 | 5.32 | 2.97 | 1.82 | 0.99 | 0.71 | 0.57 | 0.49 | 0.26 | 0.14 |
| 9.90V | 10.3 | 6.52 | 5.19 | 2.91 | 1.79 | 0.99 | 0.71 | 0.57 | 0.48 | 0.26 | 0.14 |
| 10.2V | 9.90 | 6.25 | 5.00 | 2.82 | 1.75 | 0.98 | 0.70 | 0.56 | 0.48 | 0.26 | 0.14 |
| 10.5V | 9.47 | 5.98 | 4.83 | 2.75 | 1.71 | 0.97 | 0.70 | 0.56 | 0.48 | 0.26 | 0.14 |
| 10.8V | 8.94 | 5.64 | 4.58 | 2.65 | 1.66 | 0.94 | 0.68 | 0.54 | 0.46 | 0.26 | 0.14 |

Constant Power Discharge Characteristics (Watt, 25°C)

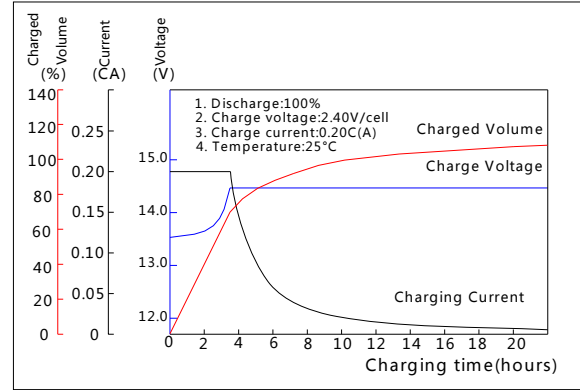
| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 10h | 20h |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|------|
| 9.60V | 119 | 75.8 | 60.6 | 34.0 | 21.1 | 11.6 | 8.48 | 6.80 | 5.80 | 3.17 | 1.71 |
| 9.90V | 115 | 73.5 | 59.2 | 33.3 | 20.8 | 11.6 | 8.43 | 6.76 | 5.76 | 3.16 | 1.70 |
| 10.2V | 110 | 70.5 | 57.0 | 32.3 | 20.2 | 11.5 | 8.37 | 6.72 | 5.72 | 3.14 | 1.69 |
| 10.5V | 106 | 67.5 | 55.1 | 31.5 | 19.8 | 11.3 | 8.32 | 6.67 | 5.68 | 3.12 | 1.68 |
| 10.8V | 99.7 | 63.7 | 52.2 | 30.4 | 19.2 | 11.0 | 8.07 | 6.47 | 5.51 | 3.06 | 1.65 |

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

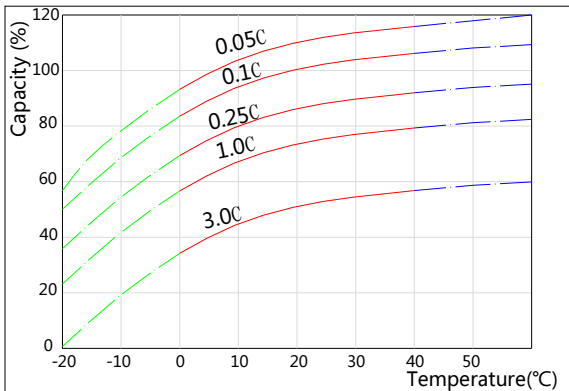
Discharge Characteristics(25°C)



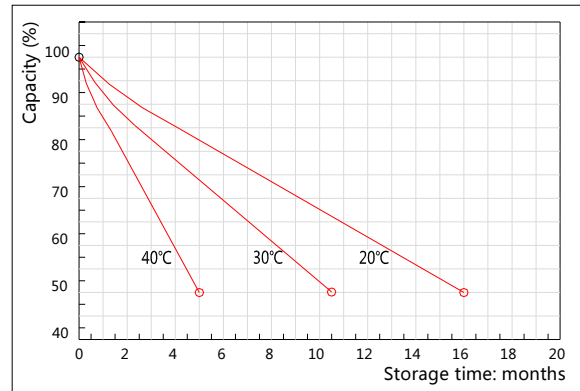
Charging Characteristics(25°C)



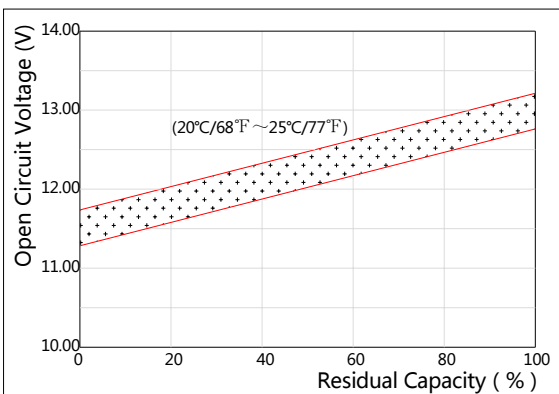
Effect of Temperature on Capacity



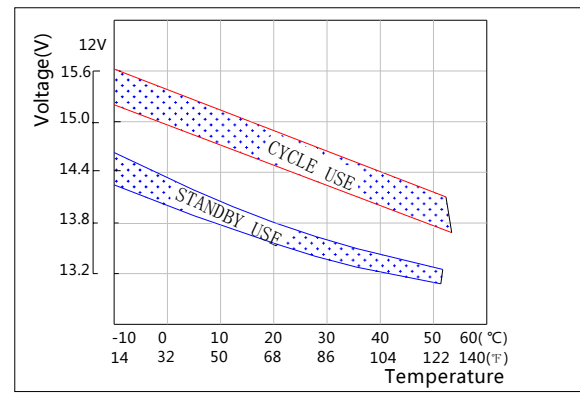
Self-discharge Characteristics



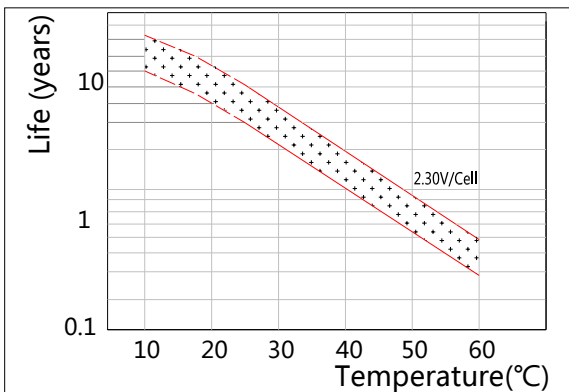
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

