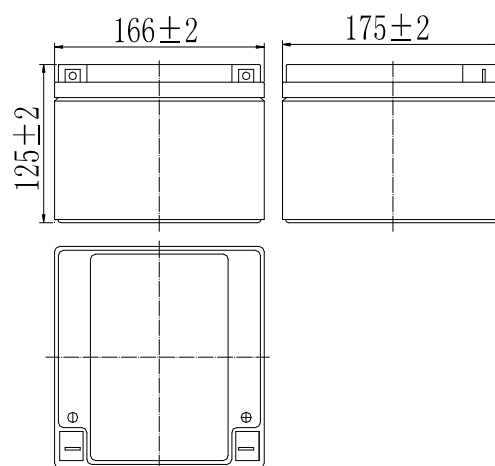


Specifications

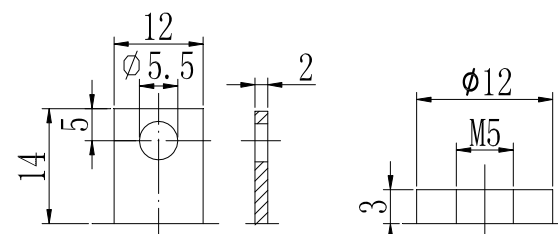
| | | |
|---|--------------|---|
| Nominal Voltage | | 12 V |
| Capacity (25°C) | 10HR(10.8V) | 28.0 Ah |
| | 5HR(10.5V) | 25.9Ah |
| | 1HR(9.60V) | 19.2 Ah |
| Dimension | Length | 166 ± 2mm (6.54inch) |
| | Width | 175 ± 2mm (6.89inch) |
| | Height | 125 ± 2mm (4.92inch) |
| | Total Height | 125 ± 2mm (4.92inch) |
| Approx. Weight | | 8.7kg (19.2lbs) ± 4% |
| Terminal type | | T3/T8 |
| Internal resistance (Fully charged, 25°C) | | Approx. 10m 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 | | 8.4A |
| Terminal material | | Copper |
| Maximum discharge current | | 420A(5 sec.) |
| Designed floating life(20°C) | | 15 years |



Dimensions



Terminal



Terminal T3

Terminal T8

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

Constant Current Discharge Characteristics (A, 25°C)

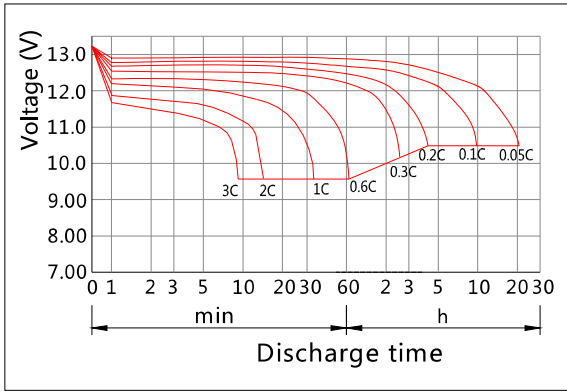
| F.V/TIME | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 9.60V | 69.8 | 55.9 | 31.2 | 19.2 | 10.9 | 7.79 | 6.23 | 5.30 | 3.43 | 2.88 | 1.49 |
| 9.90V | 67.7 | 54.5 | 30.5 | 18.9 | 10.8 | 7.75 | 6.20 | 5.27 | 3.40 | 2.87 | 1.49 |
| 10.2V | 64.9 | 52.5 | 29.6 | 18.3 | 10.7 | 7.69 | 6.15 | 5.23 | 3.38 | 2.86 | 1.48 |
| 10.5V | 62.2 | 50.7 | 28.9 | 18.0 | 10.5 | 7.64 | 6.11 | 5.19 | 3.36 | 2.84 | 1.47 |
| 10.8V | 58.7 | 48.0 | 27.8 | 17.5 | 10.3 | 7.41 | 5.92 | 5.04 | 3.26 | 2.80 | 1.44 |

Constant Power Discharge Characteristics (Watt, 25°C)

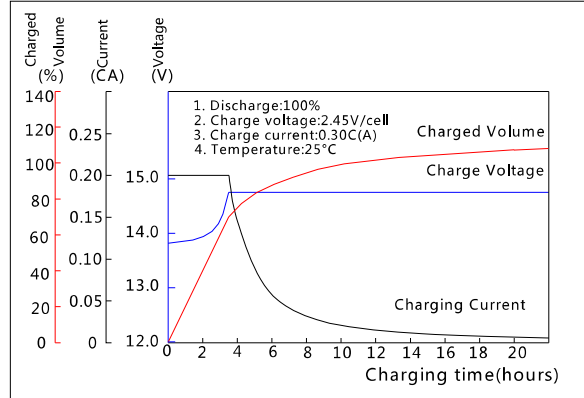
| F.V/TIME | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|-----|------|------|------|------|------|------|
| 9.60V | 788 | 637 | 357 | 221 | 127 | 92.5 | 74.2 | 63.3 | 41.1 | 34.6 | 17.9 |
| 9.90V | 764 | 622 | 350 | 218 | 127 | 92.0 | 73.7 | 62.8 | 40.9 | 34.5 | 17.8 |
| 10.2V | 733 | 599 | 339 | 213 | 125 | 91.3 | 73.3 | 62.4 | 40.6 | 34.3 | 17.7 |
| 10.5V | 701 | 578 | 331 | 208 | 123 | 90.8 | 72.8 | 62.0 | 40.4 | 34.0 | 17.6 |
| 10.8V | 662 | 548 | 319 | 202 | 120 | 88.0 | 70.6 | 60.1 | 39.2 | 33.4 | 17.3 |

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

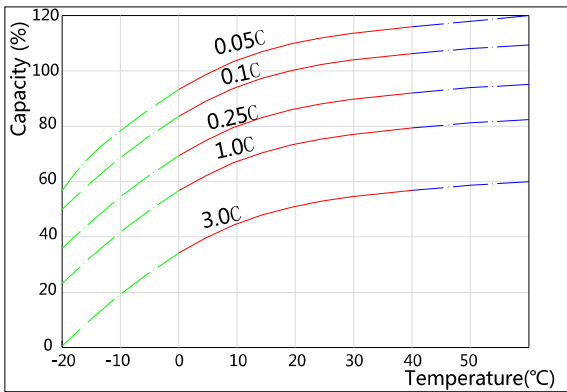
Discharge Characteristics(25°C)



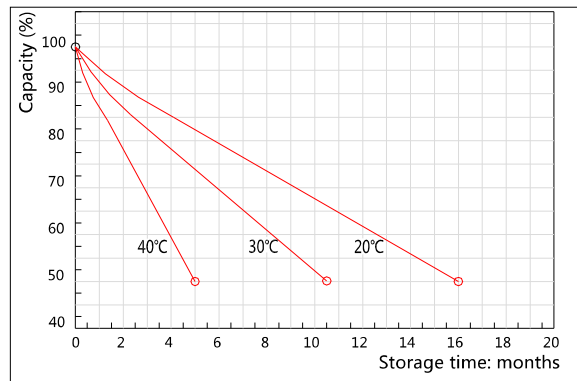
Charging Characteristics(25°C)



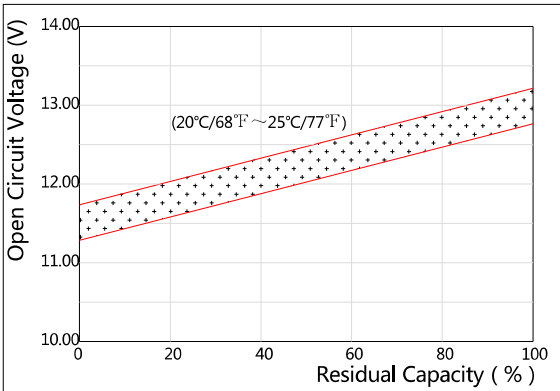
Effect of Temperature on Capacity



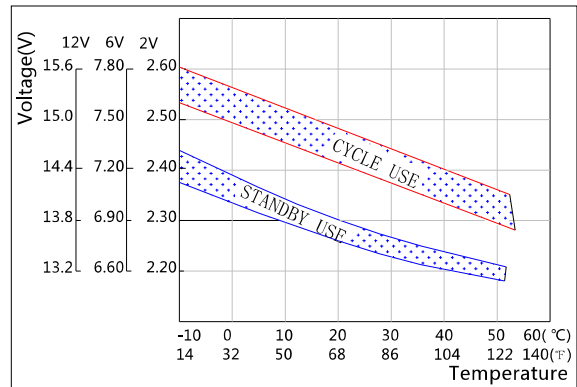
Self-discharge Characteristics



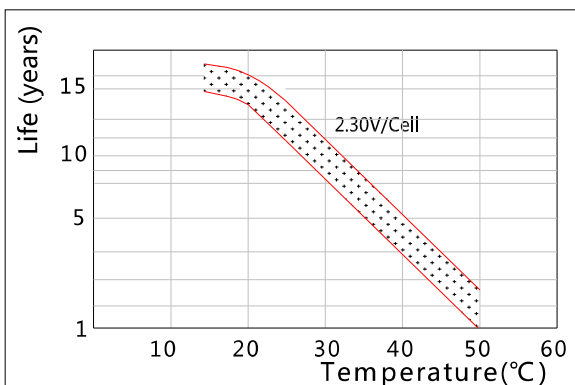
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

