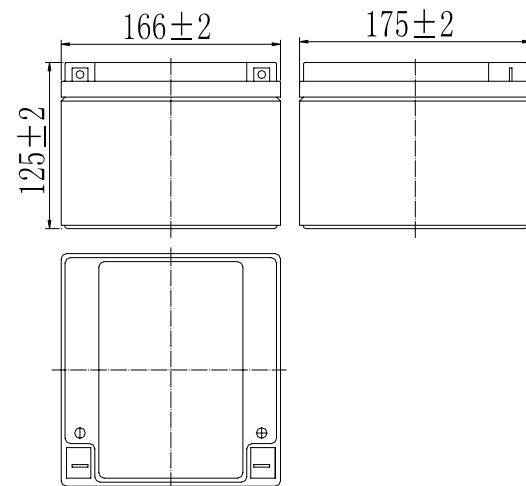


Specifications

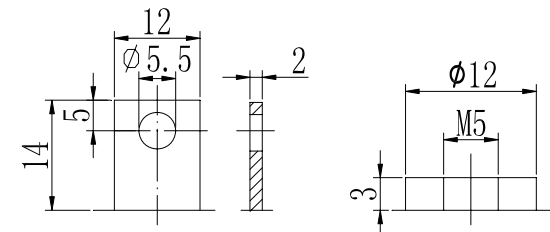
| | | |
|--|--------------|---|
| Nominal Voltage | | 12 V |
| Number of cell | | 6 cells |
| Capacity(20HR, 25°C) | | 24 Ah |
| Capacity(15min.rate, 25°C) | | 100 Watts/cell |
| Dimension | Length | 166±2mm (6.54inch) |
| | Width | 175±2mm (6.89inch) |
| | Height | 125±2mm (4.92inch) |
| | Total Height | 125±2mm (4.92inch) |
| Approx. Weight | | 8.2kg (18.1lbs)±4% |
| Terminal type | | T3/T8 |
| Internal resistance (Fully charged, 25°C) | | Approx. 10mΩ |
| 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 | | 7.2A |
| Terminal material | | Copper |
| Maximum discharge current | | 360A(5 sec.) |
| Designed floating life(20°C) | | 3~5 years |

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

Dimensions



Terminal



Terminal T3

Terminal T8

Constant Current Discharge Characteristics (A, 25°C)

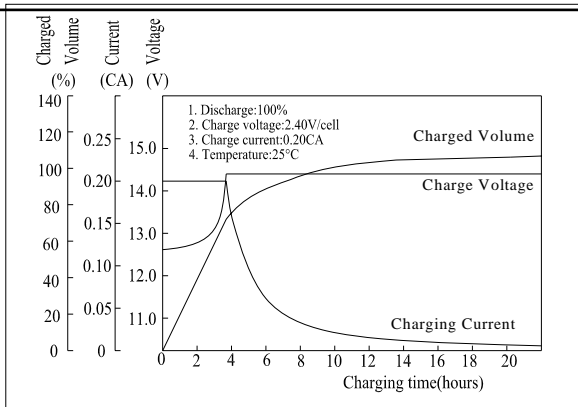
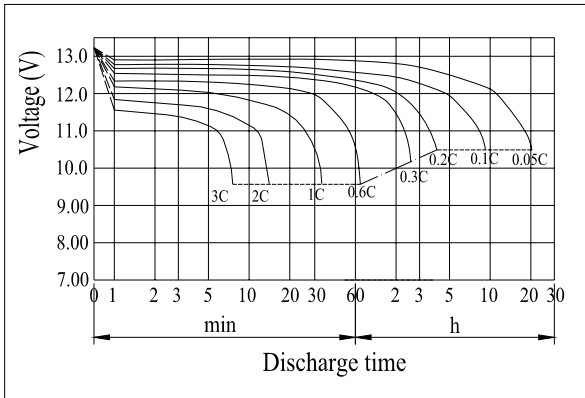
| F.V/TIME | 10min | 15min | 20min | 30min | 45min | 60min | 2h | 3h | 5h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1.60V/cell | 67.1 | 52.9 | 41.9 | 29.1 | 20.8 | 16.4 | 8.77 | 6.24 | 4.28 | 2.31 | 1.24 |
| 1.65V/cell | 65.1 | 51.6 | 40.9 | 28.5 | 20.4 | 16.2 | 8.72 | 6.21 | 4.26 | 2.31 | 1.24 |
| 1.67V/cell | 64.1 | 50.8 | 40.3 | 28.1 | 20.2 | 16.0 | 8.69 | 6.19 | 4.25 | 2.30 | 1.24 |
| 1.70V/cell | 62.4 | 49.7 | 39.4 | 27.6 | 19.8 | 15.8 | 8.64 | 6.16 | 4.23 | 2.29 | 1.23 |
| 1.75V/cell | 59.8 | 48.0 | 38.1 | 26.9 | 19.3 | 15.5 | 8.51 | 6.12 | 4.20 | 2.28 | 1.22 |
| 1.80V/cell | 56.4 | 45.5 | 36.1 | 25.9 | 18.6 | 15.0 | 8.29 | 5.94 | 4.07 | 2.23 | 1.20 |

Constant Power Discharge Characteristics (Watt/cell, 25°C)

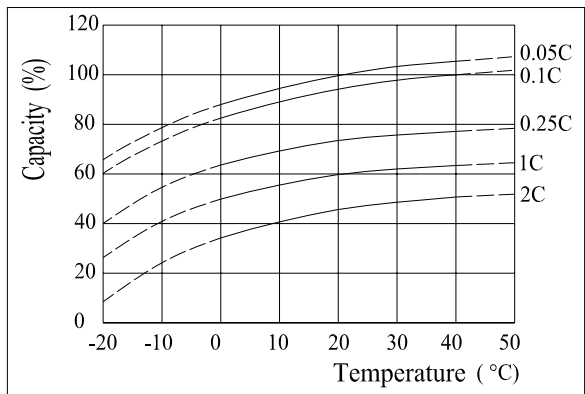
| F.V/TIME | 10min | 15min | 20min | 30min | 45min | 60min | 2h | 3h | 5h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1.60V/cell | 130 | 104 | 82.6 | 57.2 | 41.0 | 32.4 | 17.4 | 12.5 | 8.57 | 4.63 | 2.48 |
| 1.65V/cell | 126 | 102 | 80.6 | 56.1 | 40.2 | 31.9 | 17.3 | 12.4 | 8.52 | 4.61 | 2.47 |
| 1.67V/cell | 124 | 100 | 79.3 | 55.4 | 39.7 | 31.6 | 17.2 | 12.4 | 8.49 | 4.60 | 2.47 |
| 1.70V/cell | 121 | 98.0 | 77.7 | 54.4 | 39.0 | 31.1 | 17.1 | 12.3 | 8.46 | 4.59 | 2.46 |
| 1.75V/cell | 115 | 94.6 | 75.0 | 53.1 | 38.0 | 30.5 | 16.9 | 12.2 | 8.40 | 4.56 | 2.45 |
| 1.80V/cell | 109 | 89.6 | 71.0 | 51.1 | 36.6 | 29.5 | 16.4 | 11.9 | 8.15 | 4.47 | 2.40 |

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

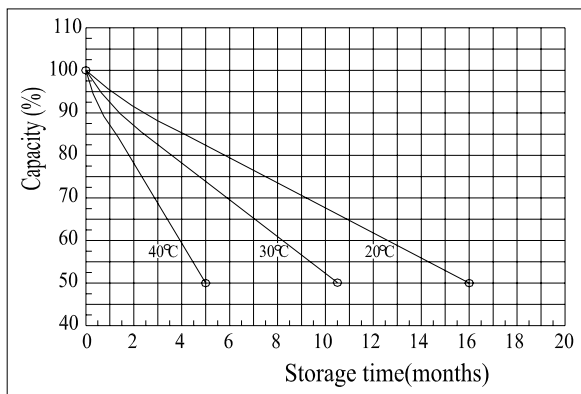
Discharge Characteristics(25°C)



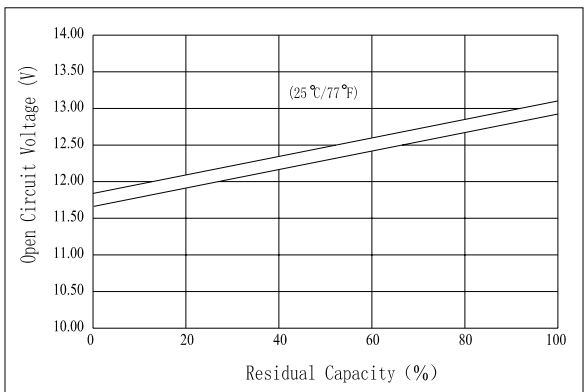
Effect of Temperature on Capacity



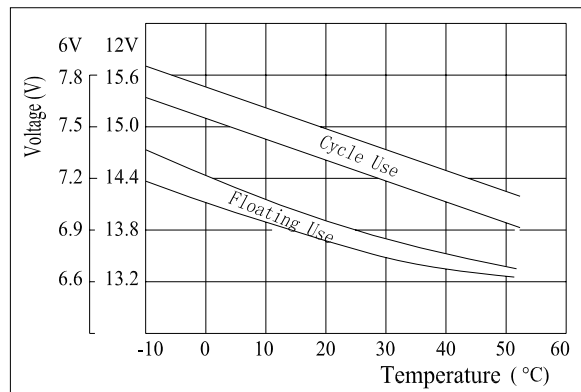
Self-discharge Characteristics



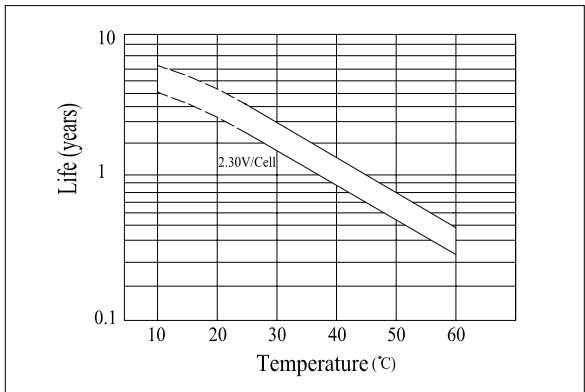
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



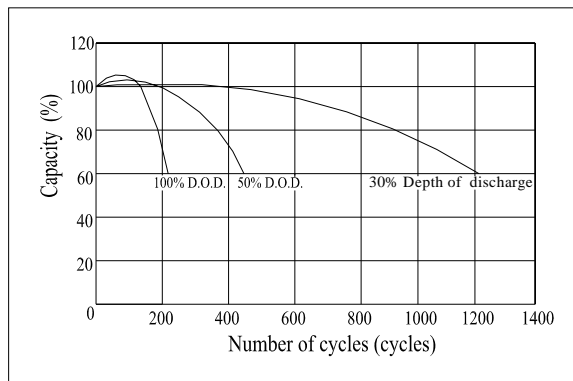
The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D.(25°C)



Charging Characteristics(25°C)