

Specifications

| | | |
|-------------------------------------------|--------------|-------------------------------------------------------|
| Nominal Voltage | | 12 V |
| Capacity (25°C) | 20HR(10.5V) | 6.5Ah |
| | 10HR(10.5V) | 6Ah |
| | 1HR(9.60V) | 4.23Ah |
| 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 | | 2.08kg (4.59lbs) ± 5% |
| Terminal type | | T1/T2 |
| Internal resistance (Fully charged, 25°C) | | Approx. 30mΩ |
| 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 | | 1.95A |
| Terminal material | | Copper |
| Maximum discharge current | | 97.5A(5 sec.) |
| Designed floating life(20°C) | | 3~5 years |

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

Constant Current Discharge Characteristics (A, 25°C)

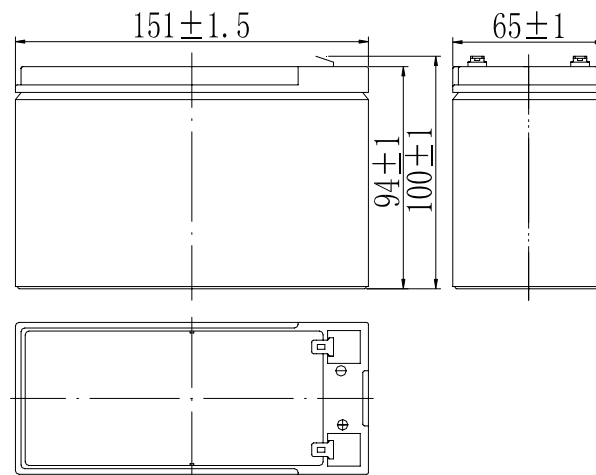
| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 10h | 20h |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|-------|
| 9.60V | 24.7 | 15.6 | 12.4 | 6.89 | 4.23 | 2.31 | 1.66 | 1.33 | 1.13 | 0.61 | 0.330 |
| 9.90V | 24.0 | 15.1 | 12.1 | 6.75 | 4.16 | 2.30 | 1.65 | 1.32 | 1.12 | 0.61 | 0.329 |
| 10.2V | 23.0 | 14.5 | 11.6 | 6.55 | 4.06 | 2.28 | 1.64 | 1.31 | 1.11 | 0.61 | 0.327 |
| 10.5V | 22.0 | 13.9 | 11.2 | 6.39 | 3.98 | 2.24 | 1.63 | 1.30 | 1.11 | 0.60 | 0.325 |
| 10.8V | 20.7 | 13.1 | 10.6 | 6.15 | 3.85 | 2.18 | 1.58 | 1.26 | 1.07 | 0.59 | 0.319 |

Constant Power Discharge Characteristics (Watt, 25°C)

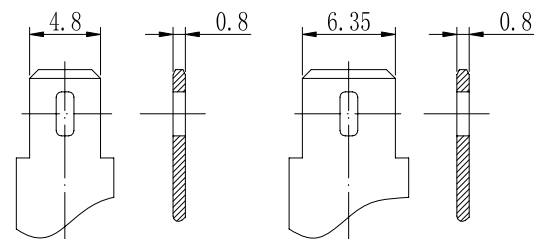
| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 10h | 20h |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|------|
| 9.60V | 276 | 176 | 141 | 79.0 | 48.9 | 27.0 | 19.7 | 15.8 | 13.5 | 7.36 | 3.96 |
| 9.90V | 267 | 171 | 137 | 77.4 | 48.2 | 26.9 | 19.6 | 15.7 | 13.4 | 7.33 | 3.94 |
| 10.2V | 256 | 164 | 132 | 75.0 | 47.0 | 26.6 | 19.4 | 15.6 | 13.3 | 7.30 | 3.92 |
| 10.5V | 245 | 157 | 128 | 73.2 | 46.0 | 26.2 | 19.3 | 15.5 | 13.2 | 7.25 | 3.90 |
| 10.8V | 232 | 148 | 121 | 70.5 | 44.6 | 25.6 | 18.7 | 15.0 | 12.8 | 7.11 | 3.82 |

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

Dimensions



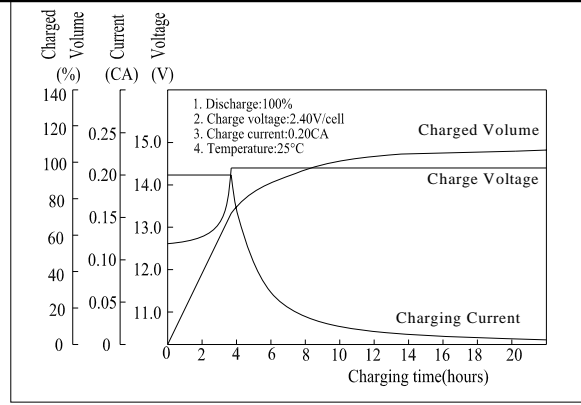
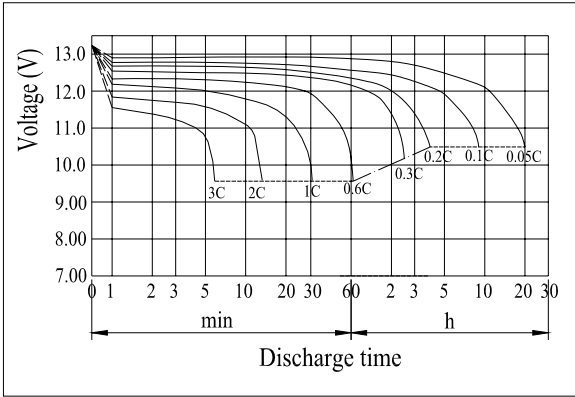
Terminal



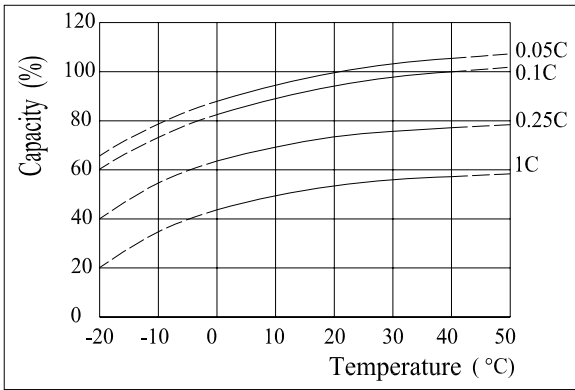
Terminal T1

Terminal T2

Discharge Characteristics(25°C)



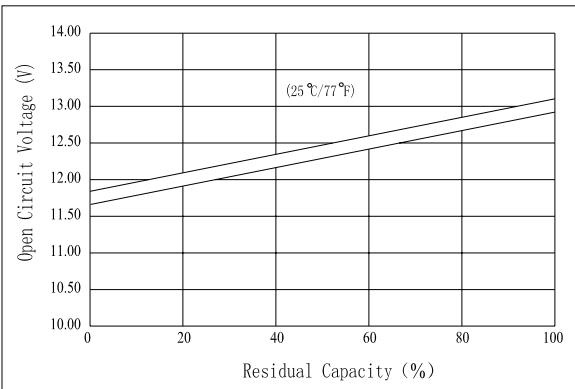
Effect of Temperature on Capacity



Self-discharge Characteristics



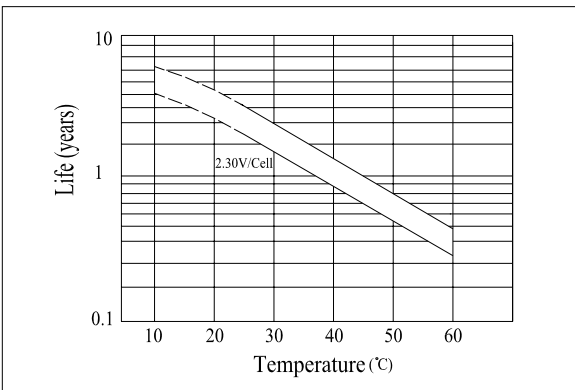
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



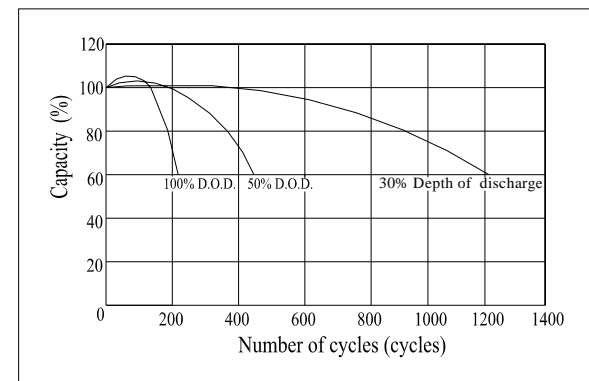
The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)



Charging Characteristics(25°C)