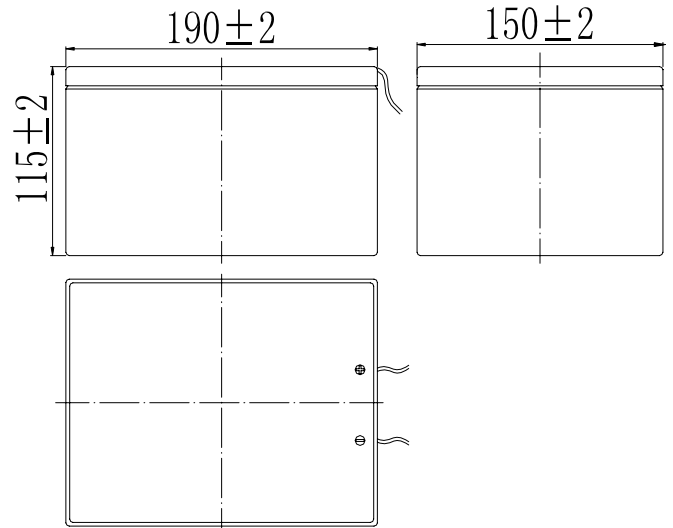


Specifications

| | | |
|--|--------------|--|
| Nominal Voltage | | 36 V |
| Capacity (25°C) | 20HR(15.75V) | 12Ah |
| | 10HR(15.75V) | 11Ah |
| | 1HR(14.40V) | 7.75Ah |
| Dimension | Length | 190 ± 2mm (7.48inch) |
| | Width | 150 ± 2mm (5.91inch) |
| | Height | 115 ± 2mm (4.53inch) |
| | Total Height | 115 ± 2mm (4.53inch) |
| Approx. Weight | | 9.8kg (21.6lbs) ± 5% |
| Terminal type | | Plug |
| Internal resistance (Fully charged, 25°C) | | Approx. 65mΩ |
| 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) | | 40.80 to 41.40V Temperature compensation: -54mV/°C |
| Cyclic charging voltage(25°C) | | 43.50 to 44.70V Temperature compensation: -90mV/°C |
| Maximum charging current | | 3.6A |
| Terminal material | | Wire Plug |
| Maximum discharge current | | 40A(5 sec.) |
| Designed floating life(20°C) | | 3~5 years |

Dimensions



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

Constant Current Discharge Characteristics (A, 25°C)

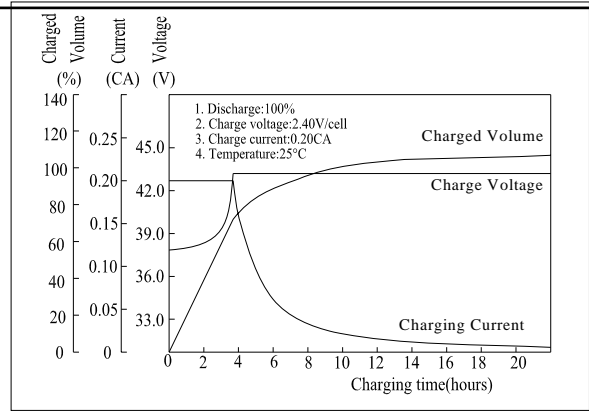
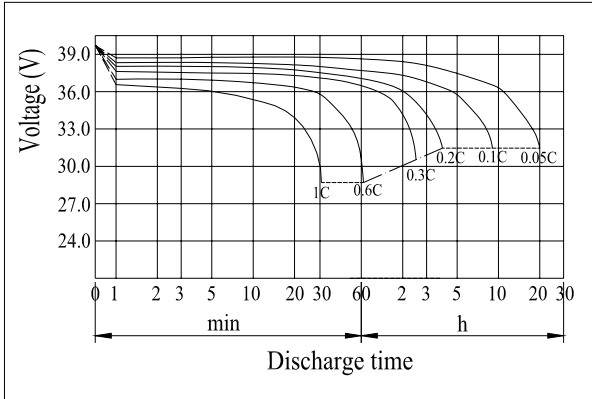
| F.V/TIME | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 14.40V | -- | -- | -- | 7.75 | 4.19 | 3.01 | 2.41 | 2.05 | 1.32 | 1.11 | 0.61 |
| 14.85V | -- | -- | -- | 7.63 | 4.17 | 2.99 | 2.39 | 2.03 | 1.32 | 1.11 | 0.61 |
| 15.30V | -- | -- | -- | 7.44 | 4.13 | 2.97 | 2.38 | 2.02 | 1.31 | 1.10 | 0.60 |
| 15.75V | -- | -- | -- | 7.29 | 4.07 | 2.95 | 2.36 | 2.01 | 1.30 | 1.10 | 0.60 |
| 16.20V | -- | -- | -- | 7.06 | 3.96 | 2.86 | 2.29 | 1.95 | 1.26 | 1.08 | 0.59 |

Constant Power Discharge Characteristics (Watt, 25°C)

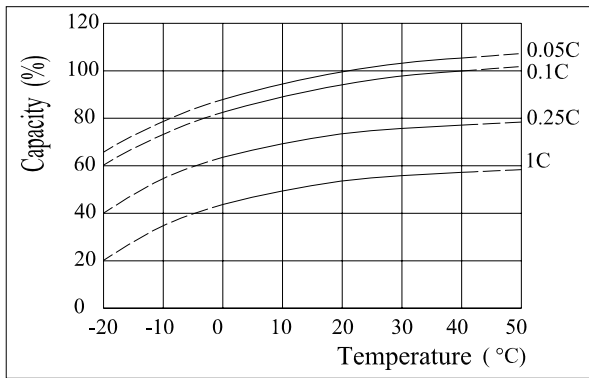
| F.V/TIME | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|-----|-----|------|------|------|------|------|
| 14.40V | -- | -- | -- | 269 | 147 | 107 | 86.0 | 73.3 | 47.7 | 40.1 | 21.9 |
| 14.85V | -- | -- | -- | 265 | 146 | 107 | 85.5 | 72.9 | 47.4 | 39.9 | 21.8 |
| 15.30V | -- | -- | -- | 258 | 145 | 106 | 84.9 | 72.4 | 47.1 | 39.7 | 21.7 |
| 15.75V | -- | -- | -- | 253 | 143 | 105 | 84.3 | 71.9 | 46.7 | 39.5 | 21.6 |
| 16.20V | -- | -- | -- | 245 | 139 | 102 | 81.8 | 69.7 | 45.3 | 38.7 | 21.2 |

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

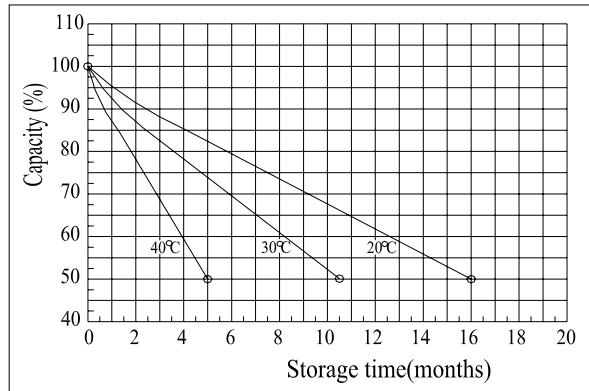
Discharge Characteristics(25°C)



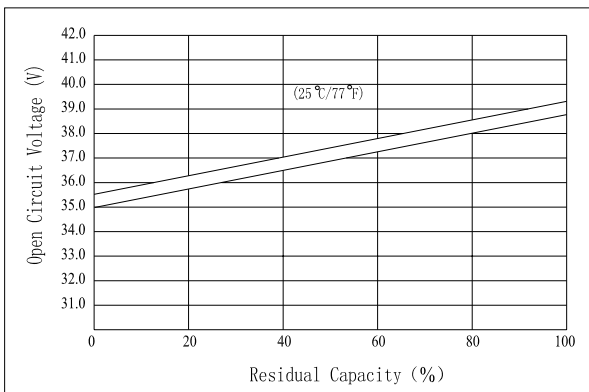
Effect of Temperature on Capacity



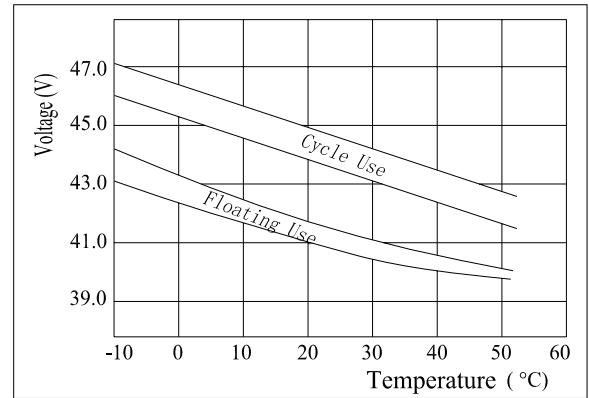
Self-discharge Characteristics



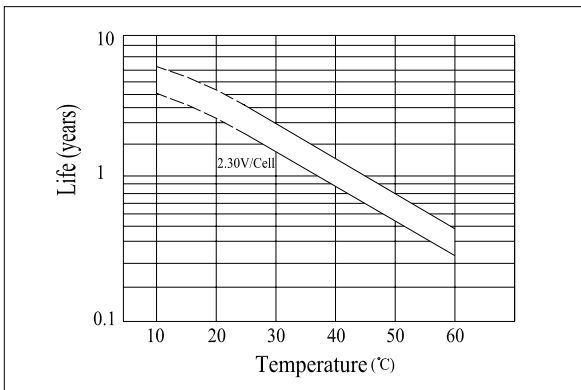
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



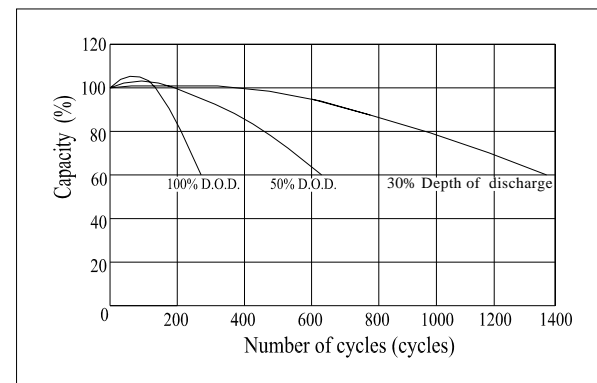
The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)



Charging Characteristics(25°C)