

Specifications

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|---|--------------|--|
| Nominal Voltage | | 2 V |
| Capacity (25°C) | 10HR(1.80V) | 100 Ah |
| | 3HR(1.75V) | 76.5Ah |
| | 1HR(1.60V) | 60.0Ah |
| Dimension | Length | 171 ± 2mm (6.73inch) |
| | Width | 72 ± 1mm (2.83inch) |
| | Height | 205 ± 2mm (8.07inch) |
| | Total Height | 208 ± 2mm (8.19inch) |
| Approx. Weight | | 6kg (13.2lbs) ± 3% |
| Terminal type | | T10 |
| Internal resistance (Fully charged, 25°C) | | Approx. 0.9m Ω |
| Capacity affected by temperature (10HR) | 40°C | 103% |
| | 25°C | 100% |
| | 0°C | 88% |
| | -15°C | 70% |
| Self-discharge (25°C) | 3 month | Remaining Capacity: 94% |
| | 6 month | Remaining Capacity: 88% |
| | 12 month | Remaining Capacity: 75% |
| Nominal operating temperature | | 25°C ± 3°C (77°F ± 5°F) |
| Operating temperature range | Discharge | -15°C ~ 55°C (5°F ~ 131°F) |
| | Charge | -10°C ~ 55°C (14°F ~ 131°F) |
| | Storage | -20°C ~ 55°C (-4°F ~ 131°F) |
| Float charging voltage(25°C) | | 2.25 to 2.30V Temperature compensation: -3mV/°C |
| Cyclic charging voltage(25°C) | | 2.35 to 2.40V Temperature compensation: -5mV/°C |
| Maximum charging current | | 20A |
| Terminal material | | Copper |
| Maximum discharge current | | 800A(5 sec.) |
| Designed floating life(20°C) | | 20 years |

- ◆ Gelled electrolyte technology;
- ◆ PVC separator;
- ◆ Recognized by UL & CE;
- ◆ ABS container.

Constant Current Discharge Characteristics (A, 25°C)

| F.V/TIME | 30min | 60min | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h | 48h | 120h |
|----------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V | 85.0 | 60.0 | 36.5 | 26.0 | 20.9 | 18.2 | 15.6 | 12.2 | 10.2 | 5.34 | --- | --- |
| 1.65V | 83.3 | 58.8 | 36.3 | 25.9 | 20.8 | 18.0 | 15.5 | 12.2 | 10.2 | 5.33 | -- | -- |
| 1.70V | 81.6 | 57.6 | 36.0 | 25.7 | 20.6 | 17.9 | 15.4 | 12.1 | 10.1 | 5.32 | 2.44 | --- |
| 1.75V | 80.0 | 56.5 | 35.5 | 25.5 | 20.5 | 17.8 | 15.3 | 12.0 | 10.1 | 5.29 | 2.44 | 1.01 |
| 1.80V | 77.5 | 54.7 | 34.6 | 24.7 | 19.9 | 17.3 | 14.8 | 11.6 | 10.0 | 5.25 | 2.42 | 1.00 |

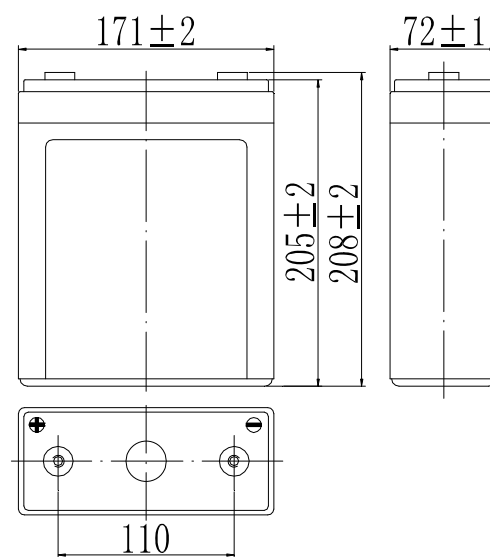
Constant Power Discharge Characteristics (Watt, 25°C)

| F.V/TIME | 30min | 60min | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h | 48h | 120h |
|----------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V | 159 | 114 | 70.5 | 51.0 | 41.0 | 35.8 | 30.7 | 24.4 | 20.3 | 10.7 | --- | --- |
| 1.65V | 156 | 112 | 70.1 | 50.7 | 40.7 | 35.6 | 30.6 | 24.2 | 20.2 | 10.7 | -- | -- |
| 1.70V | 153 | 109 | 69.5 | 50.3 | 40.5 | 35.3 | 30.4 | 24.0 | 20.2 | 10.6 | 4.97 | --- |
| 1.75V | 150 | 107 | 68.4 | 50.0 | 40.2 | 35.1 | 30.1 | 23.9 | 20.0 | 10.6 | 4.92 | 2.06 |
| 1.80V | 145 | 104 | 66.7 | 48.5 | 39.0 | 34.0 | 29.2 | 23.2 | 19.9 | 10.5 | 4.89 | 2.05 |

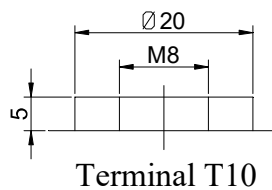
Note: The above characteristics data can be obtained within three charge/discharge cycles.



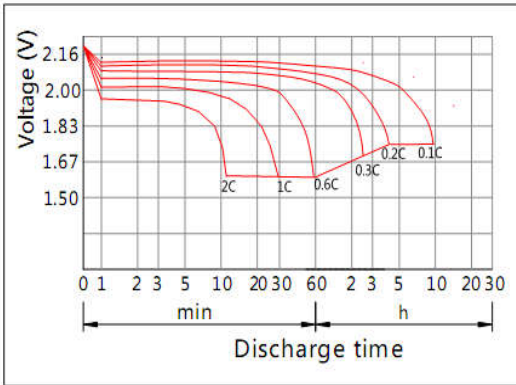
Dimensions



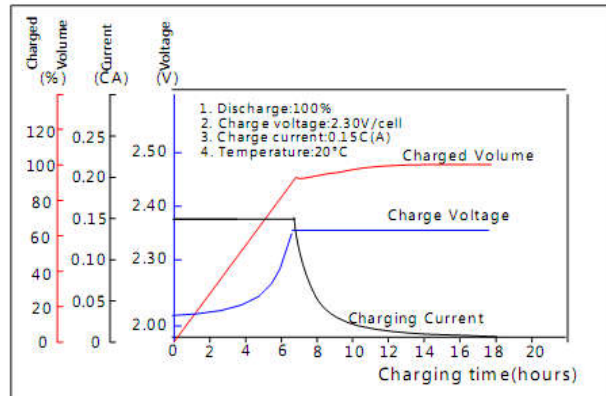
Terminal



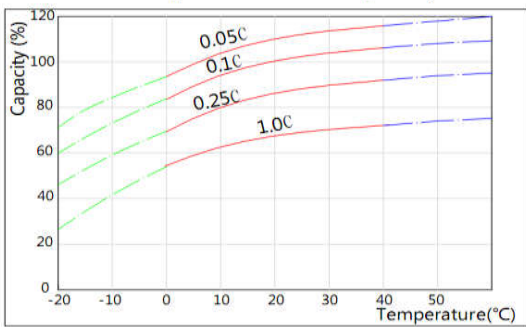
Discharge Characteristics(25°C)



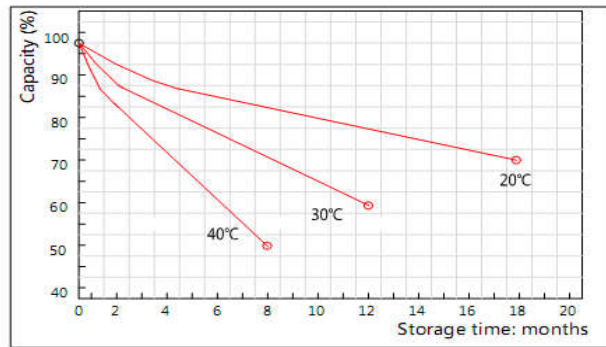
Charging Characteristics(25°C)



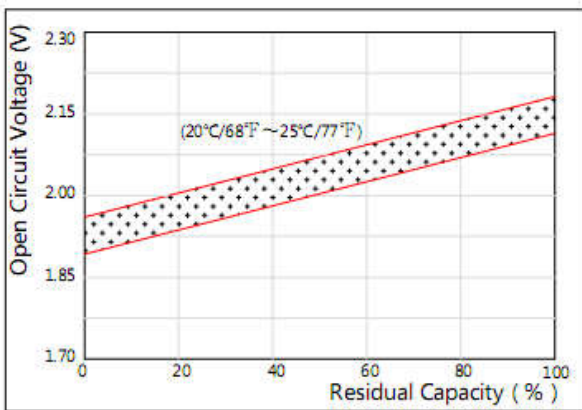
Effect of Temperature on Capacity



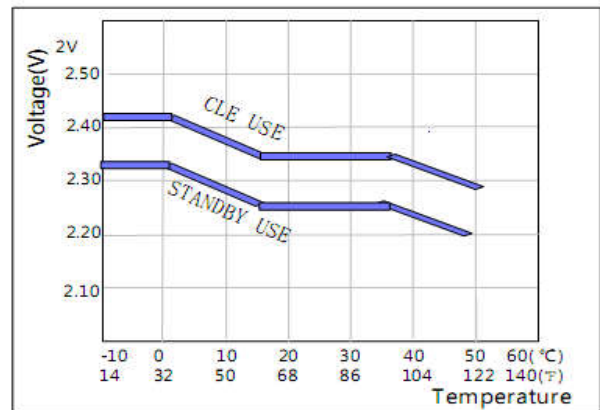
Self-discharge Characteristics



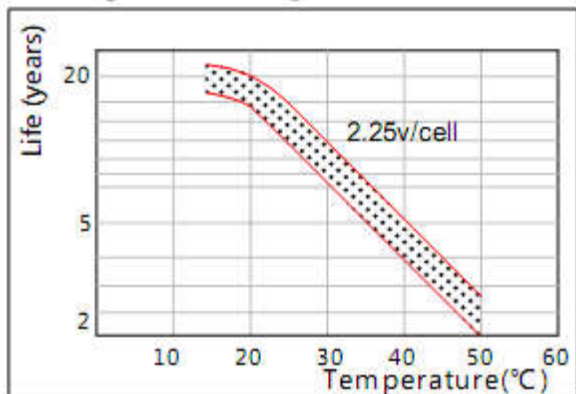
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

