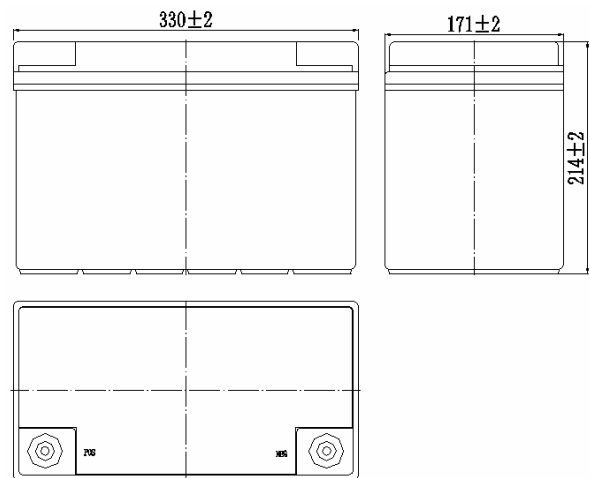


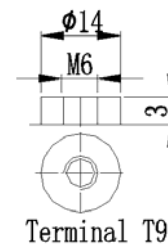
Specifications

| | | |
|---|--------------|---|
| Nominal Voltage | | 12 V |
| Capacity (25°C) | 120HR(11.1V) | 95Ah |
| | 10HR(10.8V) | 80Ah |
| | 1HR(9.6V) | 44.8Ah |
| Dimension | Length | 330±2mm (13.0inch) |
| | Width | 171±2mm (6.73inch) |
| | Height | 214±2mm (8.43inch) |
| | Total Height | T9: 220±2mm (8.66inch) |
| Approx. Weight | | Approx 30.5kg (67.1lbs) |
| Terminal type | | T9 |
| Internal resistance (Fully charged, 25°C) | | Approx. 7.8m 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 ~ 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) | | 13.50 to 13.62V Temperature compensation: -18mV/°C |
| Cyclic charging voltage(25°C) | | 14.10 to 14.40V Temperature compensation: -24mV/°C |
| Maximum charging current | | 16A |
| Terminal material | | Copper |
| Maximum discharge current | | 400A (5 sec.) |
| Designed floating life(20°C) | | 20 years |

Dimensions



Terminal



- ◆ Gelled electrolyte technology;
- ◆ Tubular Positive Plate;
- ◆ ABS container.
- ◆ DIN 40742 Standard

Constant Current Discharge Characteristics (A, 25°C)

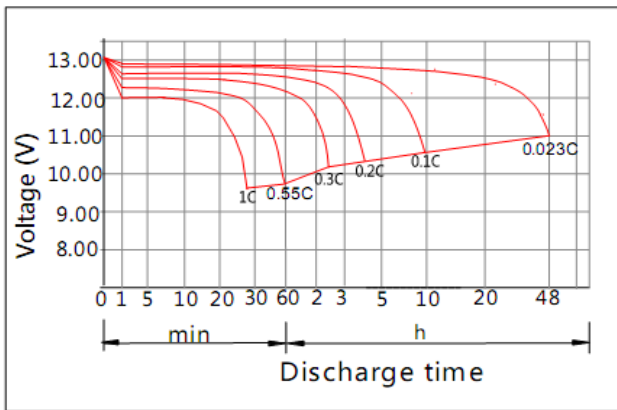
| F.V/TIME | 30min | 60min | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h | 24h | 48h | 72h | 120h |
|----------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1.65V | 68.5 | 44.0 | 28.7 | 20.5 | 17.7 | 15.2 | 13.0 | 9.77 | 8.13 | 4.28 | 3.91 | --- | --- | --- |
| 1.70V | 66.5 | 42.9 | 28.5 | 20.3 | 17.5 | 15.1 | 12.9 | 9.68 | 8.10 | 4.27 | 3.88 | --- | --- | --- |
| 1.75V | 64.7 | 42.1 | 28.0 | 20.0 | 17.3 | 15.0 | 12.8 | 9.52 | 8.04 | 4.24 | 3.86 | 1.92 | --- | --- |
| 1.80V | 62.4 | 40.8 | 27.3 | 19.8 | 17.1 | 14.6 | 12.4 | 9.43 | 8.00 | 4.21 | 3.83 | 1.92 | --- | --- |
| 1.85V | 58.0 | 37.9 | 25.3 | 18.9 | 15.9 | 13.6 | 11.5 | 8.84 | 7.52 | 3.96 | 3.63 | 1.87 | 1.29 | 0.79 |

Constant Power Discharge Characteristics (Watt, 25°C)

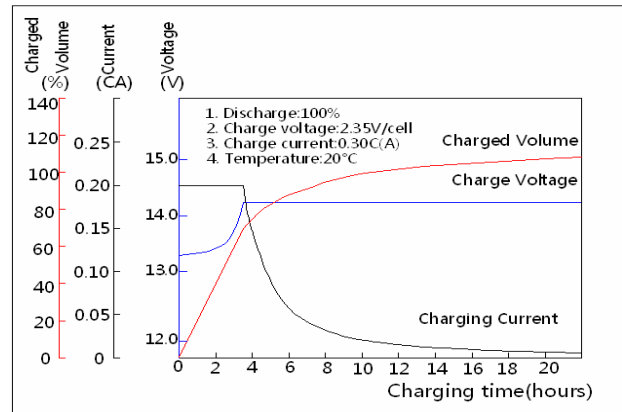
| F.V/TIME | 30min | 60min | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h | 24h | 48h | 72h | 120h |
|----------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1.65V | 127 | 81.9 | 54.8 | 39.3 | 34.1 | 29.6 | 25.4 | 19.2 | 16.1 | 8.45 | 7.72 | --- | --- | --- |
| 1.70V | 124 | 80.3 | 54.6 | 39.2 | 34.0 | 29.5 | 25.4 | 19.1 | 16.0 | 8.40 | 7.71 | --- | --- | --- |
| 1.75V | 122 | 79.5 | 54.1 | 39.1 | 33.7 | 29.6 | 25.0 | 18.9 | 16.0 | 8.40 | 7.66 | 3.86 | --- | --- |
| 1.80V | 117 | 77.5 | 52.9 | 38.8 | 33.6 | 28.8 | 24.6 | 18.8 | 15.9 | 8.32 | 7.65 | 3.85 | --- | --- |
| 1.85V | 110 | 72.8 | 49.5 | 37.2 | 31.4 | 26.9 | 23.0 | 17.6 | 15.0 | 7.92 | 7.27 | 3.76 | 2.63 | 1.65 |

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

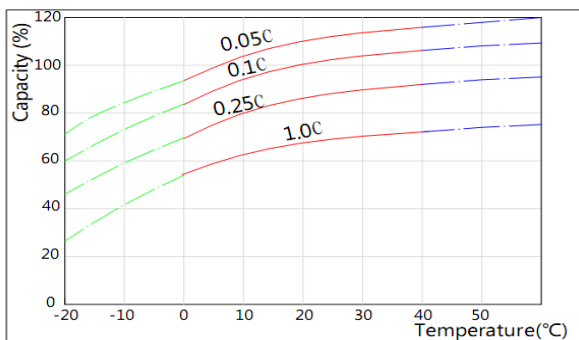
Discharge Characteristics(25°C)



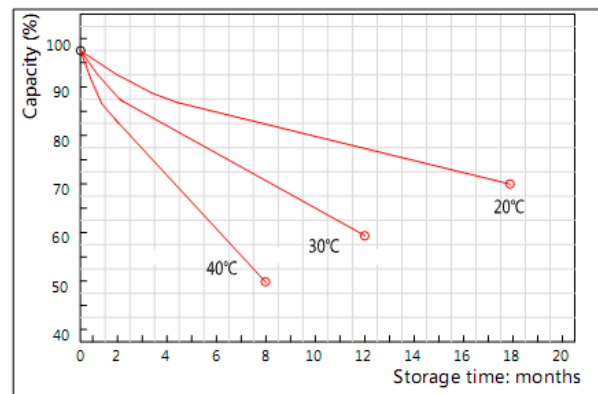
Charging Characteristics(25°C)



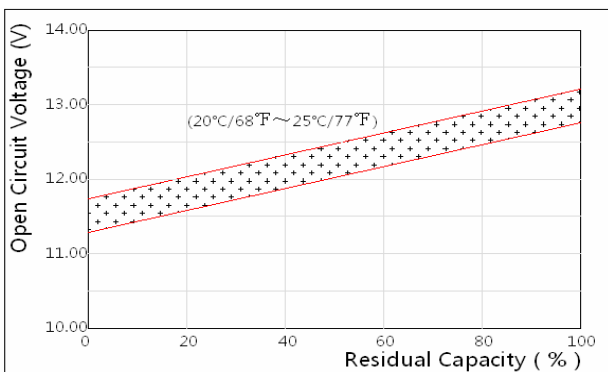
Effect of Temperature on Capacity



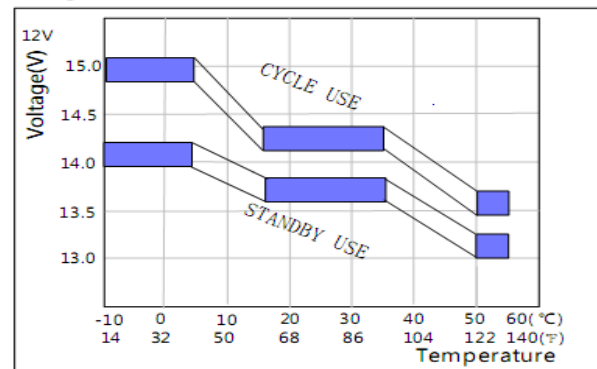
Self-discharge Characteristics



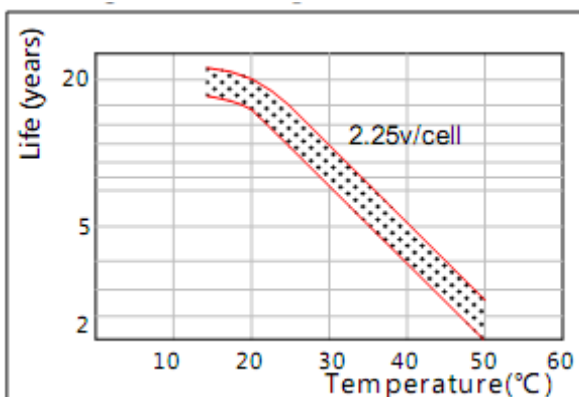
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

