

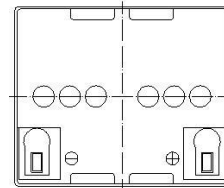
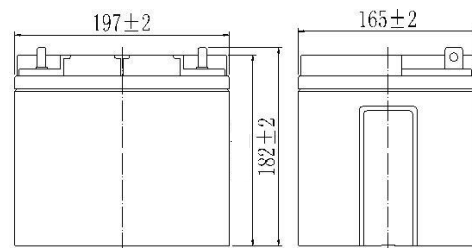
Specifications

| | | |
|---|--------------|---|
| Nominal Voltage | | 12 V |
| Capacity (25°C) | 10HR(10.8V) | 40 Ah |
| | 5HR(10.5V) | 35Ah |
| | 1HR(9.60V) | 24.8Ah |
| Dimension | Length | 197±2mm (7.76inch) |
| | Width | 165±2mm (6.50inch) |
| | Height | 170±2mm (6.69inch) |
| | Total Height | 182±2mm (7.17inch) |
| 170±2mm (6.69inch) | | |
| Approx. Weight | | 12.2kg (26.8lbs)±4% |
| Terminal type | | T6/T9 |
| Internal resistance (Fully charged, 25°C) | | Approx. 8.5mΩ |
| Capacity affected by temperature (10HR) | 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) | | 13.50 to 13.80V Temperature compensation: -18mV/°C |
| Cyclic charging voltage(25°C) | | 14.50 to 14.90V Temperature compensation: -30mV/°C |
| Maximum charging current | | 12A |
| Terminal material | | T6: Lead, T9: Copper |
| Maximum discharge current | | 400A(5 sec.) |
| Designed floating life(20°C) | | 12 years |

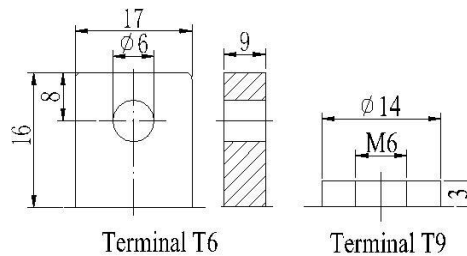
- ◆ Absorbent glass mat technology;
- ◆ Recognized by CE;
- ◆ ABS container.



Dimensions



Terminal



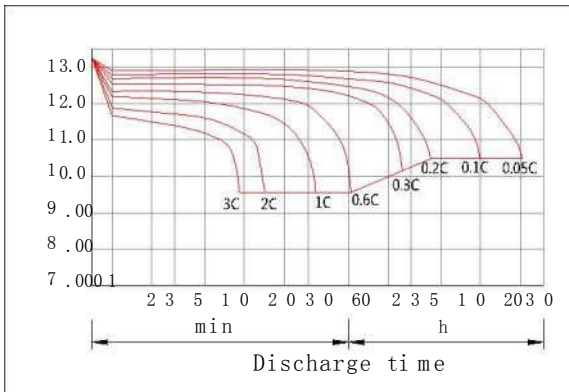
Constant Current Discharge Characteristics (A, 25°C)

| F.V/TIME | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 9.60V | 84.0 | 66.0 | 40.0 | 24.8 | 14.6 | 10.2 | 8.36 | 7.14 | 4.90 | 4.07 | 2.14 |
| 9.90V | 81.5 | 64.4 | 39.2 | 24.4 | 14.5 | 10.1 | 8.31 | 7.10 | 4.87 | 4.06 | 2.13 |
| 10.2V | 78.1 | 62.0 | 38.0 | 23.8 | 14.4 | 10.1 | 8.26 | 7.05 | 4.83 | 4.05 | 2.13 |
| 10.5V | 74.8 | 59.9 | 37.1 | 23.3 | 14.2 | 10.0 | 8.20 | 7.00 | 4.80 | 4.03 | 2.11 |
| 10.8V | 70.6 | 56.8 | 35.7 | 22.6 | 13.8 | 9.70 | 7.95 | 6.79 | 4.66 | 4.00 | 2.10 |

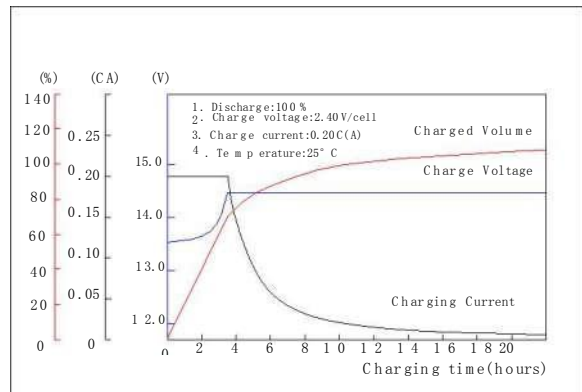
Constant Power Discharge Characteristics (Watt, 25°C)

| F.V/TIME | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|-----|-----|------|------|------|------|------|
| 9.60V | 907 | 725 | 449 | 283 | 169 | 120 | 98.4 | 84.4 | 58.2 | 48.6 | 25.7 |
| 9.90V | 880 | 707 | 440 | 278 | 168 | 119 | 97.8 | 83.9 | 57.8 | 48.5 | 25.6 |
| 10.2V | 844 | 681 | 426 | 271 | 167 | 118 | 97.1 | 83.3 | 57.4 | 48.4 | 25.5 |
| 10.5V | 807 | 658 | 416 | 266 | 164 | 118 | 96.4 | 82.7 | 57.0 | 48.1 | 25.4 |
| 10.8V | 762 | 623 | 401 | 258 | 160 | 114 | 93.5 | 80.3 | 55.3 | 47.8 | 25.2 |

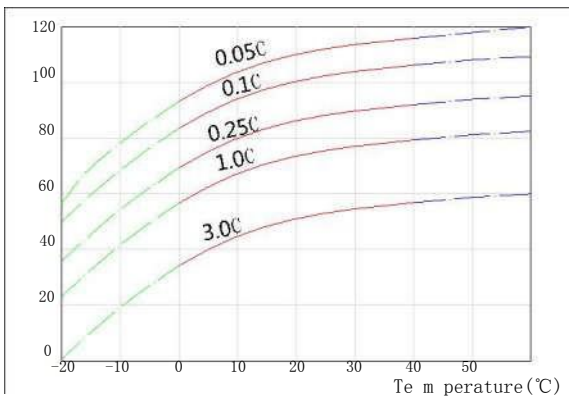
Note: The above characteristics data can be obtained within three charge/discharge cycles. Page 1 of 2



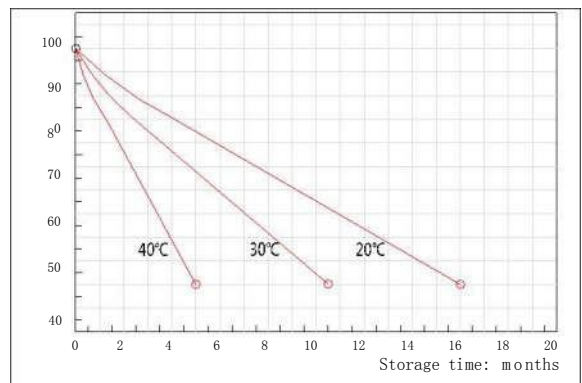
Charging Characteristics(25°C)



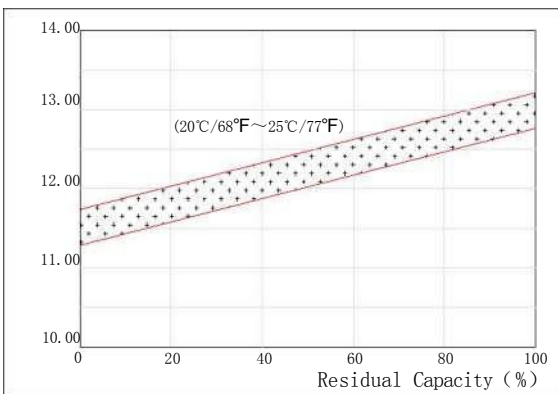
Effect of Temperature on Capacity



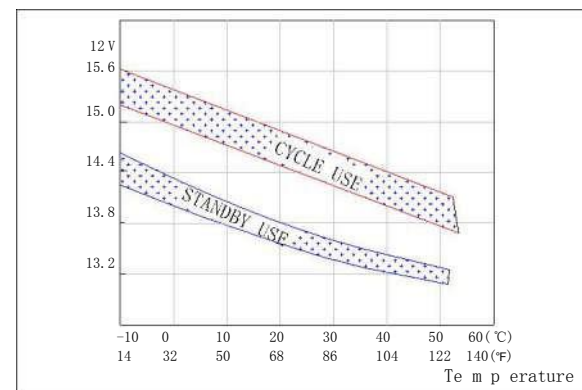
Self-discharge Characteristics



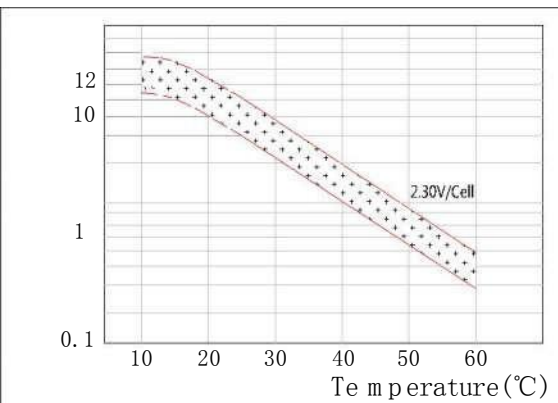
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

