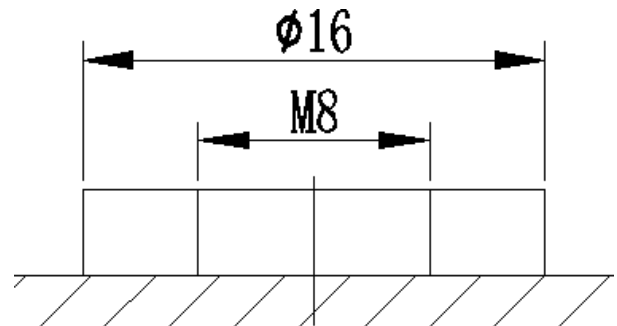
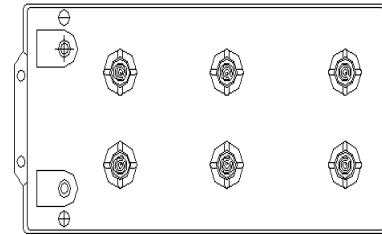
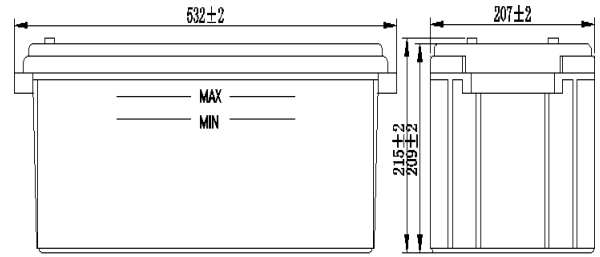




Specifications

| | | |
|---|--------------|---|
| Nominal Voltage | | 12 V |
| Capacity (25°C) | 10HR(10.8V) | 150Ah |
| | 5HR(10.5V) | 135Ah |
| | 1HR(9.60V) | 84Ah |
| Dimension | Length | 532 ± 2mm (20.9inch) |
| | Width | 207 ± 2mm (8.15inch) |
| | Height | 209 ± 2mm (8.23inch) |
| | Total Height | T11: 215 ± 2mm (8.46inch) |
| Battery Weigh | Dry | 32.8kg (70.1lbs) ± 4% |
| | Wet | 47.5kg (102.5lbs) ± 4% |
| Acid Weight (d=1.24kg/l) | | Approx. 14.7kg (32.4lbs) |
| Terminal type | | T11 |
| Internal resistance (Fully charged, 25°C) | | Approx. 6.1m Ω |
| 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) | | 13.20 to 13.44V Temperature compensation: -18mV/°C |
| Cyclic charging voltage(25°C) | | 14.10 to 14.40V Temperature compensation: -30mV/°C |
| Maximum charging current | | 45A |
| Terminal material | | Copper |
| Maximum discharge current | | 625A (5 sec.) |
| Designed floating life(20°C) | | 20 years |



Terminal T11

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

Constant Current Discharge Characteristics (A, 25°C)

| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h | 24h |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 1.60V | 207 | 188 | 174 | 137 | 84.0 | 53.3 | 39.4 | 33.0 | 27.7 | 23.6 | 18.0 | 15.3 | 8.25 | 7.18 |
| 1.65V | 201 | 182 | 170 | 134 | 82.7 | 53.0 | 39.2 | 32.8 | 27.6 | 23.4 | 17.9 | 15.2 | 8.23 | 7.16 |
| 1.70V | 193 | 174 | 164 | 130 | 80.6 | 52.5 | 38.7 | 32.3 | 27.2 | 23.1 | 17.7 | 15.2 | 8.21 | 7.14 |
| 1.75V | 184 | 167 | 158 | 127 | 79.0 | 51.7 | 38.4 | 32.1 | 27.0 | 23.0 | 17.6 | 15.1 | 8.16 | 7.10 |
| 1.80V | 174 | 158 | 150 | 122 | 76.6 | 50.4 | 37.2 | 31.1 | 26.2 | 22.3 | 17.0 | 15.0 | 8.10 | 7.05 |

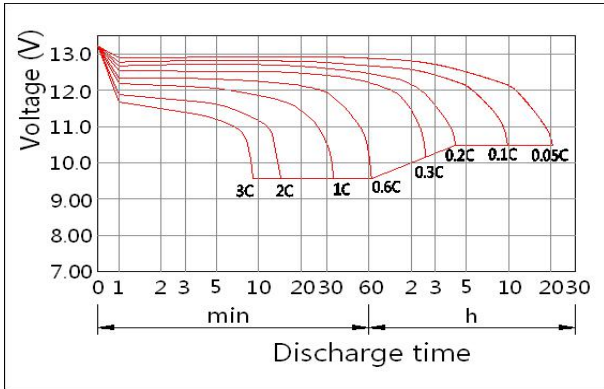
Constant Power Discharge Characteristics (Watt, 25°C)

| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h | 24h |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 1.60V | 371 | 338 | 318 | 255 | 160 | 103 | 77.3 | 64.6 | 54.6 | 46.4 | 35.7 | 30.4 | 16.5 | 14.4 |
| 1.65V | 359 | 327 | 311 | 250 | 157 | 102 | 76.9 | 64.2 | 54.3 | 46.2 | 35.5 | 30.3 | 16.5 | 14.4 |
| 1.70V | 345 | 314 | 299 | 242 | 153 | 101 | 75.8 | 63.4 | 53.6 | 45.5 | 35.0 | 30.2 | 16.4 | 14.4 |
| 1.75V | 330 | 300 | 289 | 237 | 150 | 100 | 75.3 | 62.9 | 53.2 | 45.2 | 34.7 | 30.1 | 16.3 | 14.3 |
| 1.80V | 311 | 284 | 274 | 228 | 146 | 97.3 | 73.0 | 61.0 | 51.6 | 43.9 | 33.7 | 29.9 | 16.2 | 14.2 |

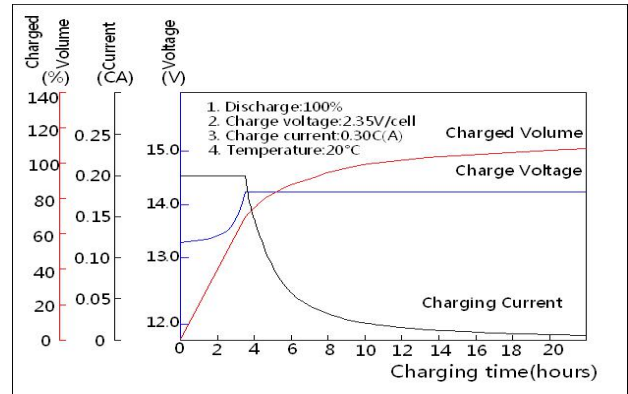
Note: The above characteristics data can be obtained within three charge/discharge cycles.



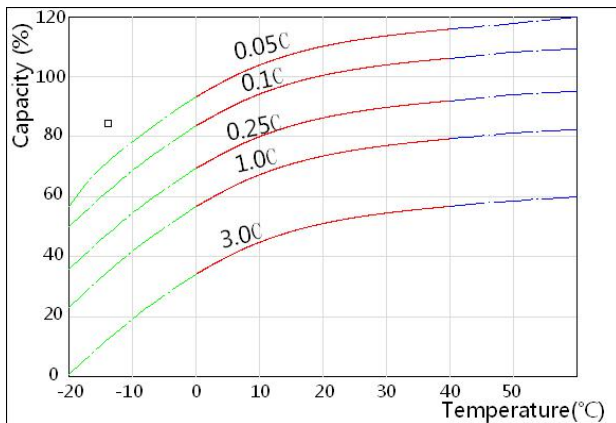
Discharge Characteristics(25°C)



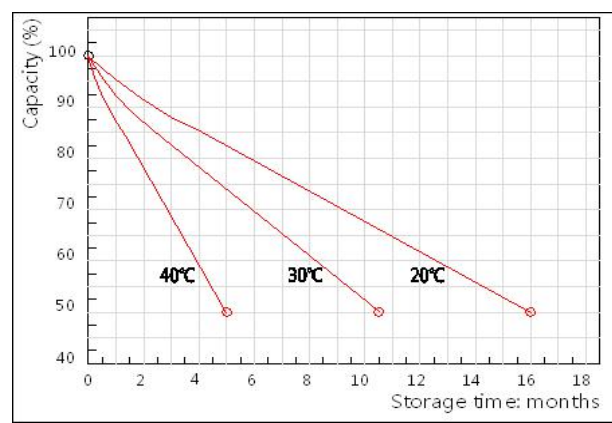
Charging Characteristics(25°C)



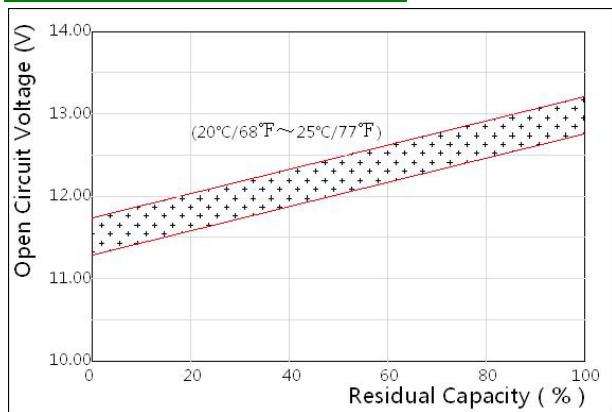
Effect of Temperature on Capacity



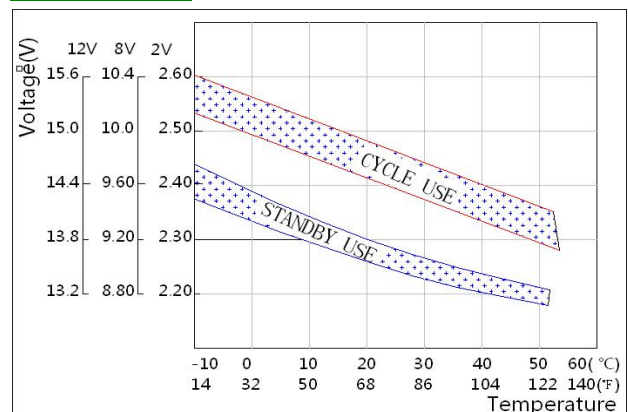
Self-discharge Characteristics



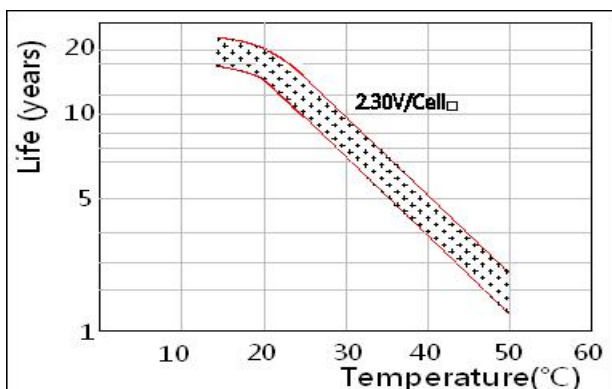
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D.(25°C)

