

Specifications

| | | |
|---|--------------|---|
| Nominal Voltage | | 12 V |
| Capacity (25°C) | 10HR(10.8V) | 55 Ah |
| | 5HR(10.5V) | 48Ah |
| | 1HR(9.60V) | 34.1Ah |
| Dimension | Length | 229 ± 2mm (9.02inch) |
| | Width | 138 ± 2mm (5.43inch) |
| | Height | 208 ± 2mm (8.19inch) |
| | Total Height | T5: 230 ± 2mm (9.06inch) T9: 211 ± 2mm (8.31inch) |
| Approx. Weight | | 16.5kg (36.3lbs) ± 4% |
| Terminal type | | T5/T9 |
| Internal resistance (Fully charged, 25°C) | | Approx. 6.5m 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) | | 13.50 to 13.80V Temperature compensation: -18mV/°C |
| Cyclic charging voltage(25°C) | | 14.50 to 14.90V Temperature compensation: -30mV/°C |
| Maximum charging current | | 16.5A |
| Terminal material | | Copper |
| Maximum discharge current | | 550A(5 sec.) |
| Designed floating life(20°C) | | 12 years |

- ◆ 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 |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 9.60V | 116 | 90.8 | 55.0 | 34.1 | 20.1 | 14.0 | 11.5 | 9.82 | 6.73 | 5.60 | 2.94 |
| 9.90V | 112 | 88.6 | 53.9 | 33.6 | 20.0 | 13.9 | 11.4 | 9.76 | 6.69 | 5.59 | 2.93 |
| 10.2V | 107 | 85.3 | 52.3 | 32.7 | 19.8 | 13.8 | 11.4 | 9.69 | 6.65 | 5.57 | 2.93 |
| 10.5V | 103 | 82.4 | 51.0 | 32.1 | 19.5 | 13.8 | 11.3 | 9.63 | 6.60 | 5.54 | 2.91 |
| 10.8V | 97.0 | 78.0 | 49.1 | 31.1 | 19.0 | 13.3 | 10.9 | 9.34 | 6.40 | 5.50 | 2.89 |

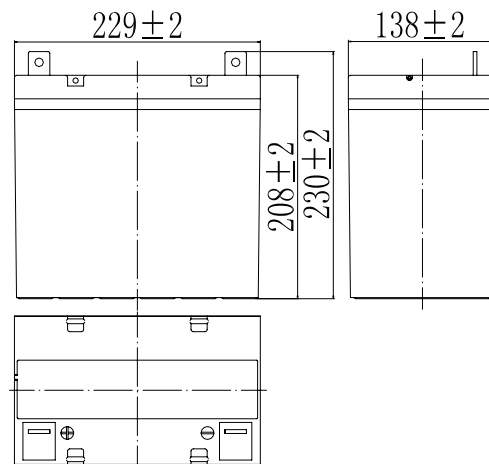
Constant Power Discharge Characteristics (Watt, 25°C)

| F.V/TIME | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|-----|-----|-----|-----|------|------|------|
| 9.60V | 1247 | 996 | 617 | 389 | 233 | 165 | 135 | 116 | 80.0 | 66.9 | 35.3 |
| 9.90V | 1210 | 973 | 605 | 383 | 231 | 164 | 134 | 115 | 79.5 | 66.7 | 35.2 |
| 10.2V | 1160 | 937 | 586 | 373 | 229 | 163 | 134 | 115 | 79.0 | 66.5 | 35.1 |
| 10.5V | 1110 | 905 | 572 | 366 | 226 | 162 | 133 | 114 | 78.4 | 66.1 | 34.9 |
| 10.8V | 1048 | 857 | 551 | 355 | 220 | 157 | 129 | 110 | 76.1 | 65.7 | 34.7 |

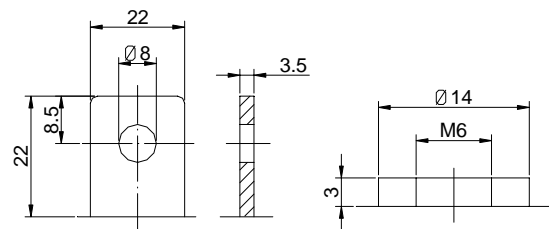
Note: The above characteristics data can be obtained within three charge/discharge cycles.



Dimensions



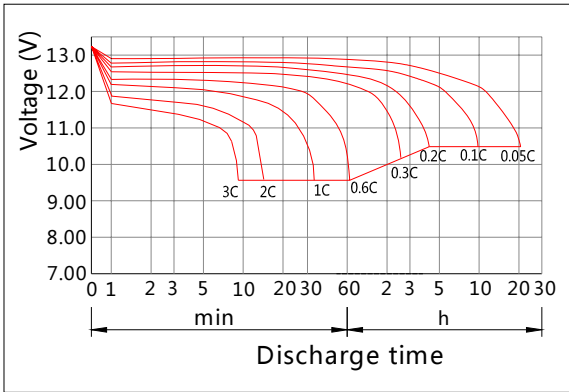
Terminal



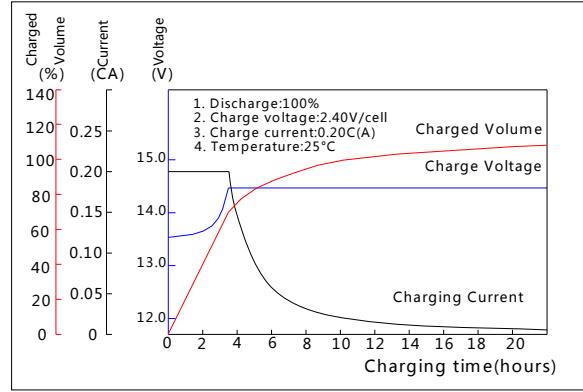
Terminal T5

Terminal T9

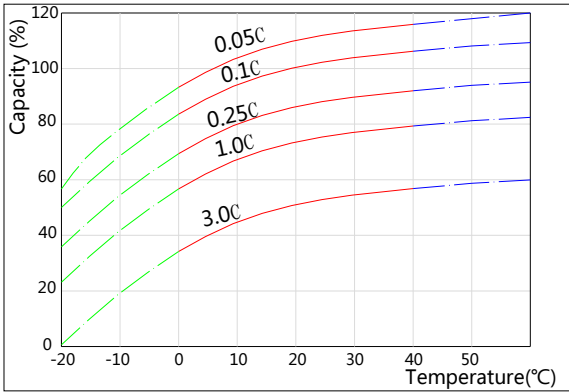
Discharge Characteristics(25°C)



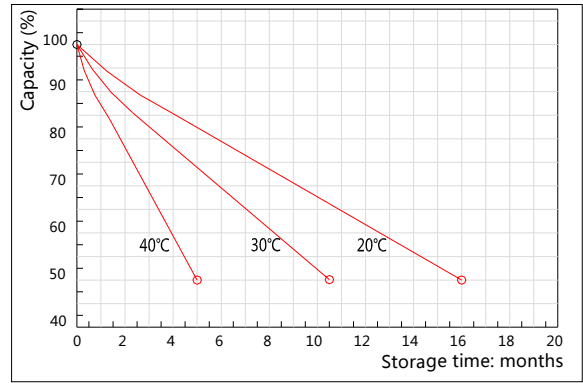
Charging Characteristics(25°C)



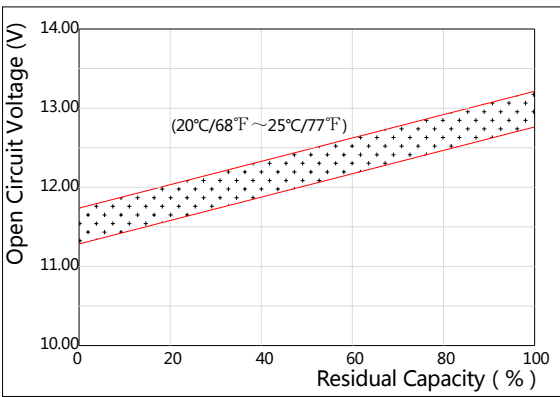
Effect of Temperature on Capacity



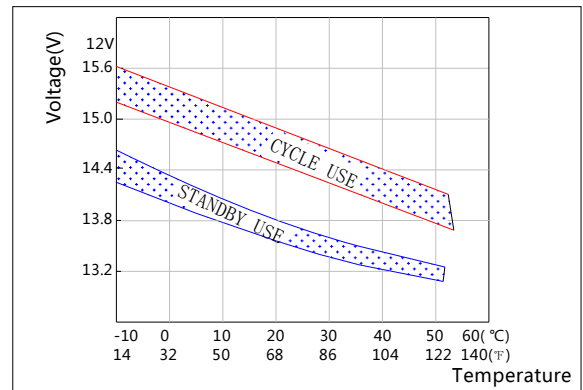
Self-discharge Characteristics



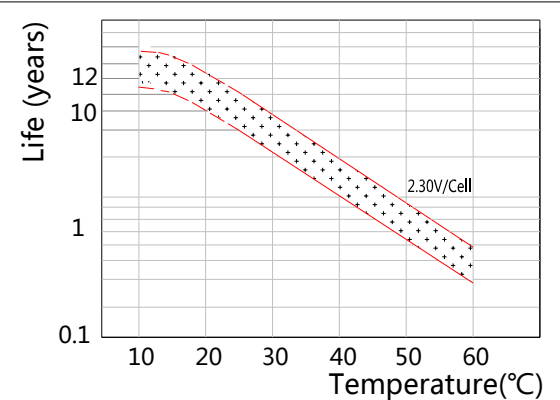
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

