

Specifications

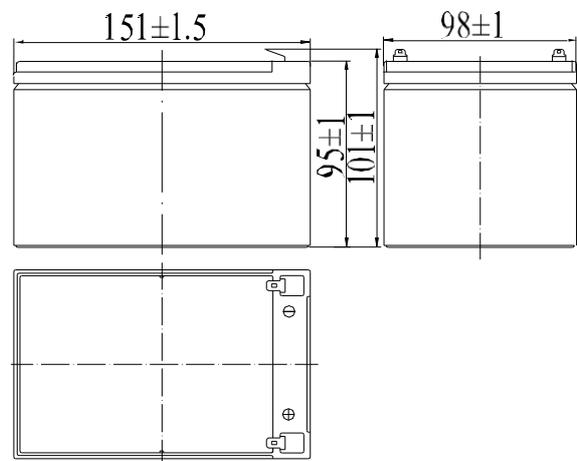
| | | |
|---|--------------|---|
| Nominal Voltage | | 12 V |
| Capacity (25°C) | 20HR(10.5V) | 12Ah |
| | 10HR(10.5V) | 11Ah |
| | 1HR(9.60V) | 7.8Ah |
| Dimension | Length | 151±1.5mm (5.94inch) |
| | Width | 98±1mm (3.86inch) |
| | Height | 95±1mm (3.74inch) |
| | Total Height | 101±1mm (3.98inch) |
| Approx. Weight | | 3.5kg (7.92lbs)±5% |
| Terminal type | | T2/T1 |
| Internal resistance (Fully charged, 25°C) | | Approx. 19mΩ |
| Capacity affected by temperature (20HR) | 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) | | 13.60 to 13.80V Temperature compensation: -18mV/°C |
| Cyclic charging voltage(25°C) | | 14.50 to 14.90V Temperature compensation: -30mV/°C |
| Maximum charging current | | 3.6A |
| Terminal material | | Copper |
| Maximum discharge current | | 180A(5 sec.) |
| Designed floating life(20°C) | | 5 years+ |

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

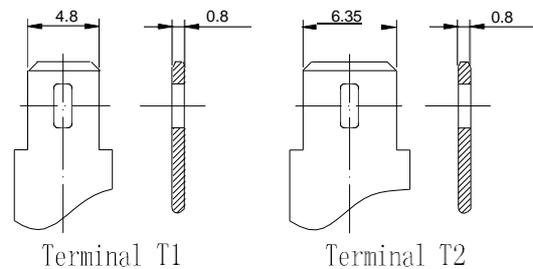
12V Voltage 12Ah Capacity 5years+ Design Life



Dimensions



Terminal



Constant Current Discharge Characteristics (A, 25°C)

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR | 2HR | 3HR | 4HR | 5HR | 10HR | 20HR |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|-------|
| 1.60V | 47.34 | 30.88 | 22.78 | 13.18 | 7.62 | 4.49 | 3.27 | 2.6 | 2.2 | 1.2 | 0.625 |
| 1.65V | 45.63 | 29.95 | 22.18 | 12.9 | 7.48 | 4.43 | 3.22 | 2.57 | 2.17 | 1.18 | 0.62 |
| 1.70V | 43.4 | 28.75 | 21.39 | 12.51 | 7.29 | 4.34 | 3.17 | 2.53 | 2.14 | 1.17 | 0.613 |
| 1.75V | 40.55 | 27.18 | 20.38 | 12.01 | 7.04 | 4.22 | 3.09 | 2.47 | 2.09 | 1.15 | 0.604 |
| 1.80V | 36.95 | 25.19 | 19.06 | 11.36 | 6.72 | 4.07 | 2.99 | 2.39 | 2.03 | 1.12 | 0.592 |

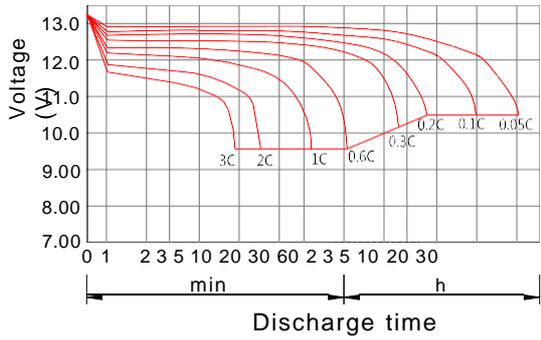
Constant Power Discharge Characteristics (Watt, 25°C)

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR | 2HR | 3HR | 4HR | 5HR | 10HR | 20HR |
|----------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V | 81.48 | 53.26 | 40.42 | 24.3 | 14.46 | 8.65 | 6.33 | 5.06 | 4.3 | 2.39 | 1.25 |
| 1.65V | 80.63 | 53.05 | 40.19 | 24.12 | 14.34 | 8.58 | 6.29 | 5.03 | 4.27 | 2.37 | 1.24 |
| 1.70V | 77.55 | 51.48 | 39.1 | 23.54 | 14.03 | 8.44 | 6.19 | 4.96 | 4.21 | 2.34 | 1.23 |
| 1.75V | 73.75 | 49.56 | 37.78 | 22.83 | 13.62 | 8.25 | 6.07 | 4.87 | 4.14 | 2.3 | 1.21 |
| 1.80V | 68.37 | 46.73 | 35.84 | 21.81 | 13.06 | 7.99 | 5.89 | 4.74 | 4.03 | 2.25 | 1.19 |

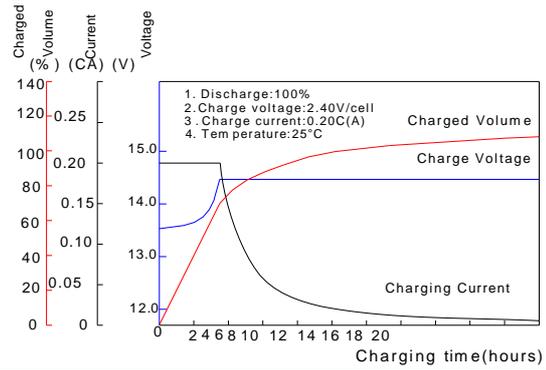


RTS12-12(12V12Ah)

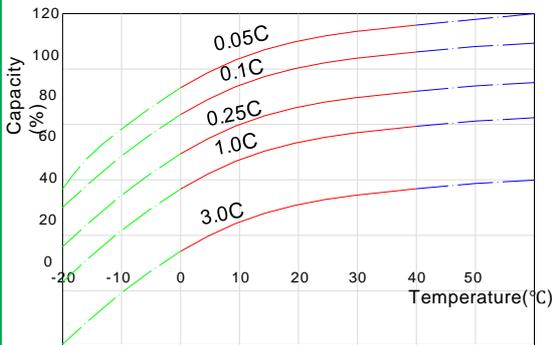
Discharge Characteristics(25°C)



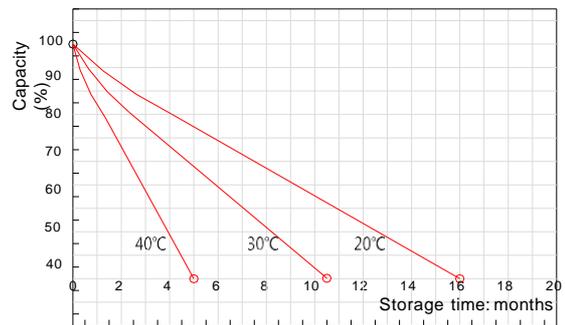
Charging Characteristics(25°C)



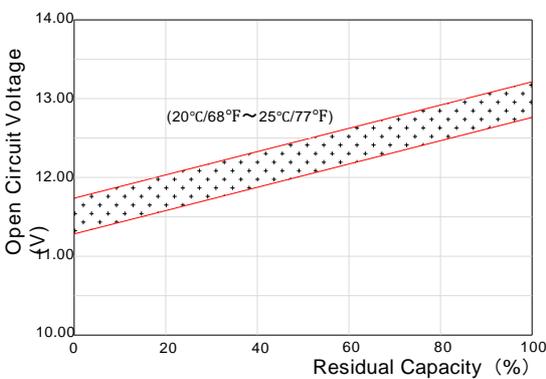
Effect of Temperature on Capacity



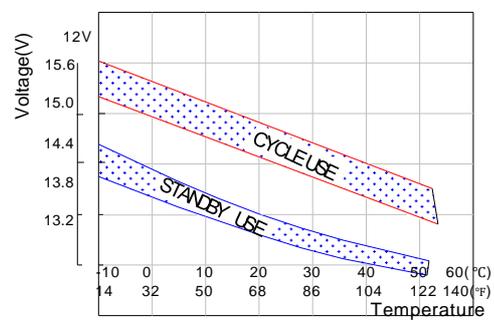
Self-discharge Characteristics



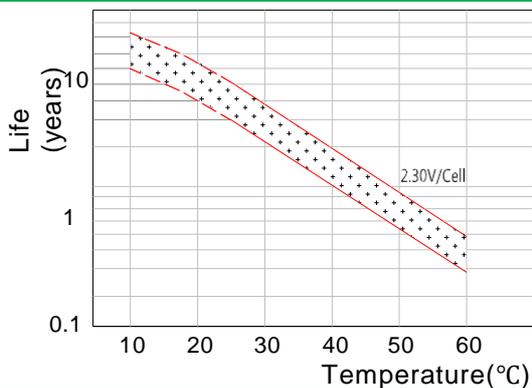
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



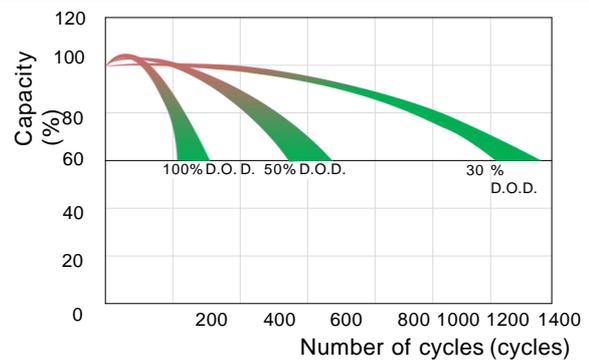
The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D.(25°C)



Authorized Distributors: RT Silicon Power PVT LTD. (Lahore, Karachi, Islamabad, Peshawar)

Phone Number: 042-37161423

Website: <https://www.rts-pk.com>

E-Mail: info@siliconpwr.net

24/7 Help Line 0300-8400577