

Powered by



RG1290PP ▶ 12V 9Ah

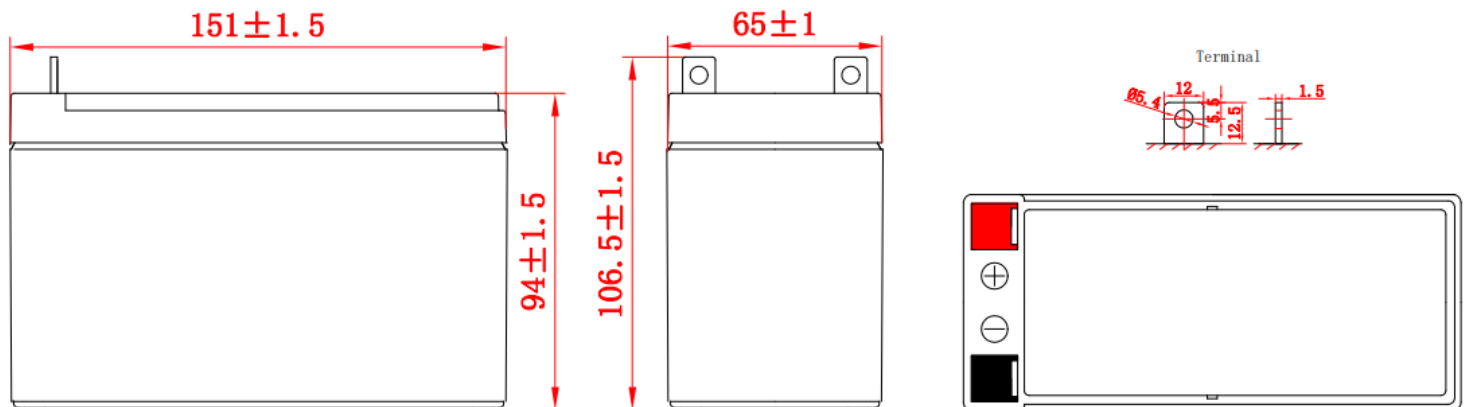
Raion Power batteries use high purity raw materials and low density electrolyte to make the batteries have good cycle performance and low self-discharge rate. It is suitable for UPS, telecom system, electric power system



► Specification

| | |
|--|--|
| Cells Per Unit | 6 |
| Voltage Per Unit | 12 |
| Capacity | 9Ah @ 20hr-rate to 1.6V per cell @25°C (77°F) |
| Weight | Approx. 2.55 kg(5.61 lbs) - Tolerance±5% |
| Maximum Discharge Current | 135A(5sec) |
| Internal Resistance | Approx. 17 mΩ |
| Operating Temperature Range | Discharge: -15°C~50°C (5°F~122°F) Charge: -15°C~40°C (5°F~104°F) Storage: -15°C~40°C (5°F~104°F) |
| Nominal Operating Temperature Range | 25°C±3°C (77°F±5°F) |
| Float Charging Voltage | 13.5 to 13.8 VDC/unit Average at 25°C (77°F) |
| Recommended Maximum Charging Current Limit | 2.7A |
| Equalization and Cycle Service | 14.4 to 15.0 VDC/unit Average at 25°C (77°F) |
| Self Discharge | This battery can be stored for more than 6 months at 25°C (77°F). Please charge batteries before using. For higher temperatures the time interval will be shorter. |
| Terminal | PP terminal to accept M5 nut & bolt |
| Container Material | ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request. |

| ► Dimensions : | Overall Height (H) | Container height (h) | Length (L) | Width (W) |
|----------------|--------------------|----------------------|------------|-----------|
| Unit: mm | 106.5±1.5 | 94±1.5 | 151±1.5 | 65±1.0 |

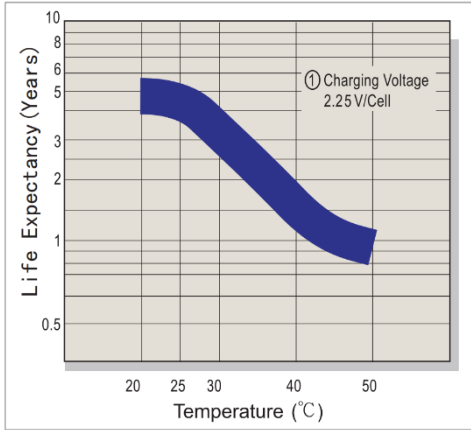


| Constant Current Discharge Characteristics Unit: A (25°C,77°F) | | | | | | | | |
|--|------|-------|-------|------|------|-------|-------|-------|
| F.V/Time | 5min | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
| 1.60V | 30.3 | 16.3 | 9.36 | 5.36 | 2.34 | 1.573 | 0.839 | 0.450 |
| 1.67V | 29.7 | 15.9 | 9.27 | 5.30 | 2.32 | 1.561 | 0.836 | 0.448 |
| 1.7V | 29.3 | 15.6 | 9.21 | 5.25 | 2.31 | 1.552 | 0.833 | 0.447 |
| 1.75V | 27.9 | 14.9 | 9.02 | 5.12 | 2.27 | 1.526 | 0.824 | 0.443 |
| 1.8V | 25.1 | 13.7 | 8.66 | 4.88 | 2.18 | 1.479 | 0.806 | 0.434 |
| 1.85V | 19.4 | 11.6 | 7.99 | 4.46 | 1.99 | 1.375 | 0.761 | 0.416 |

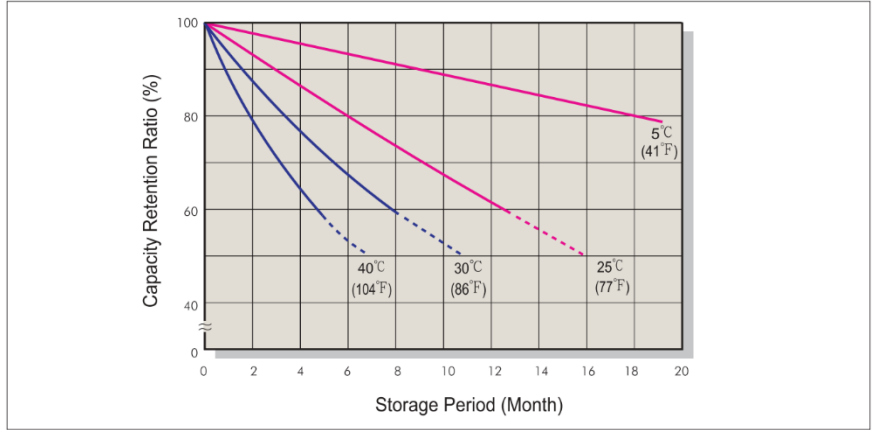
| Constant Power Discharge Characteristics Unit: W (25°C,77°F) | | | | | | | | |
|--|------|-------|-------|-------|------|-------|-------|-------|
| F.V/Time | 5min | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
| 1.60V | 52.9 | 31.6 | 18.09 | 10.19 | 4.60 | 3.009 | 1.651 | 0.891 |
| 1.67V | 50.5 | 30.1 | 17.95 | 10.09 | 4.56 | 2.997 | 1.643 | 0.889 |
| 1.7V | 48.9 | 29.0 | 17.85 | 10.03 | 4.54 | 2.984 | 1.637 | 0.887 |
| 1.75V | 44.7 | 26.8 | 17.54 | 9.87 | 4.46 | 2.937 | 1.616 | 0.880 |
| 1.8V | 38.5 | 23.9 | 16.86 | 9.54 | 4.30 | 2.838 | 1.582 | 0.862 |
| 1.85V | 30.0 | 20.1 | 15.55 | 8.86 | 3.96 | 2.683 | 1.505 | 0.830 |

Ratings presented herein are subject to revision without notice.

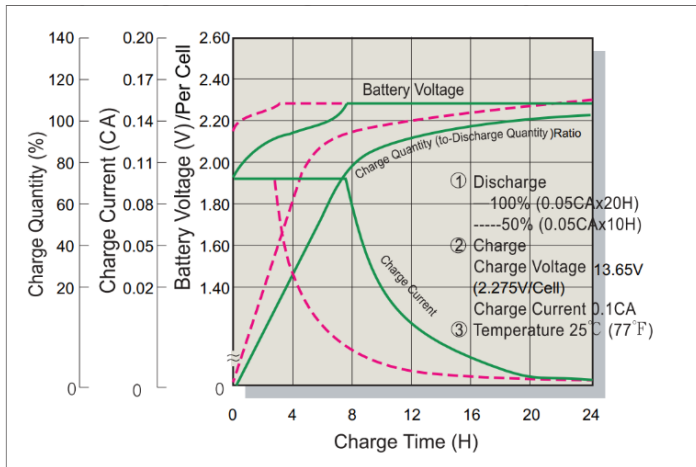
Trickle(or Float)Design Life



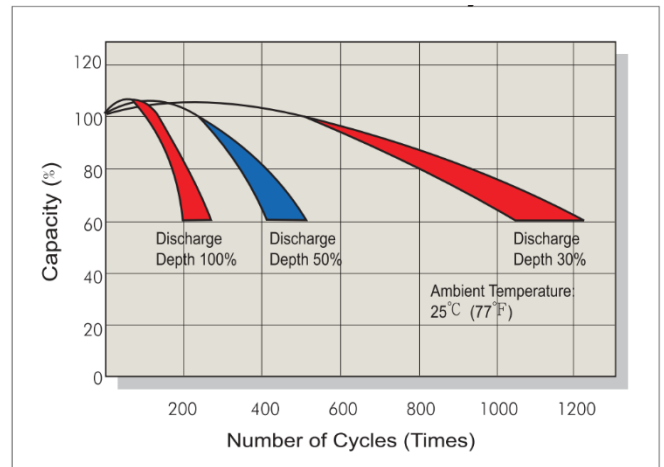
Capacity Retention Characteristic



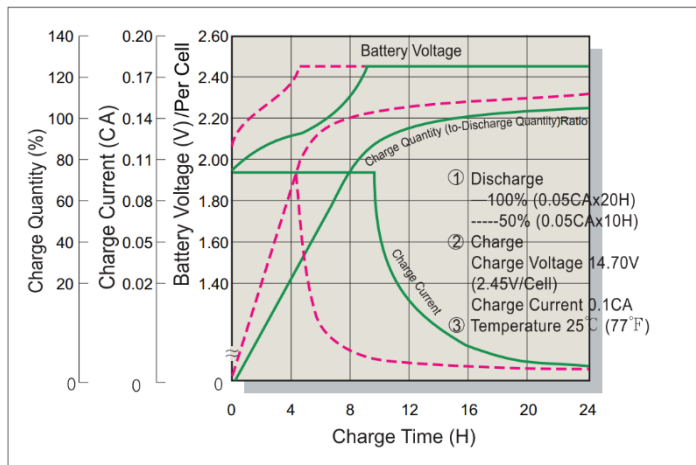
Battery Voltage and Charge Time for Standby Use



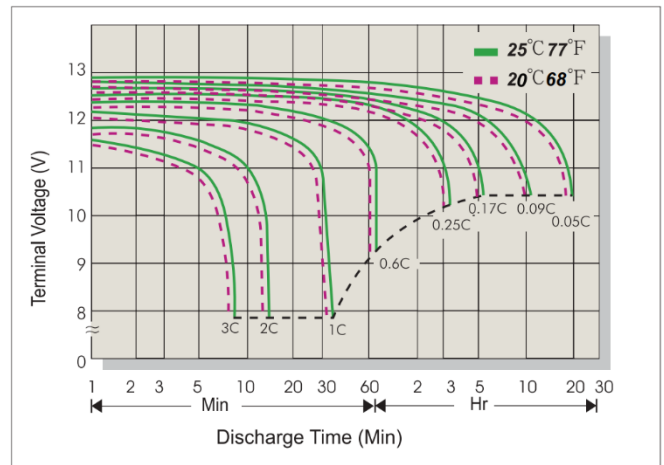
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time



Charging Procedures

| Application | Charge Voltage(V/Cell) | | | Max.Charge Current |
|-------------|------------------------|-----------|-----------------|--------------------|
| | Temperature | Set Point | Allowable Range | |
| Cycle Use | 25 °C (77 °F) | 2.45 | 2.40~2.50 | 0.3C |
| Standby | 25 °C (77 °F) | 2.275 | 2.25~2.30 | |

Discharge Current VS. Discharge Voltage

| Final Discharge Voltage V/Cell | 1.75 | 1.70 | 1.65 | 1.60 |
|--------------------------------|----------|---------------|---------------|----------|
| Discharge Current(A) | 0.2C>(A) | 0.2C<(A)<0.5C | 0.5C<(A)<1.0C | (A)>1.0C |

Effect of temperature on capacity (20HR)

| Temperature | Dependency of Capacity (20HR) |
|-------------|-------------------------------|
| 40 °C | 102% |
| 25 °C | 100% |
| 0 °C | 85% |
| -15 °C | 65% |

Self-discharge Characteristics

| Storage time | Preservation rate |
|--------------|-------------------|
| 3 Months | 91% |
| 6 Months | 82% |
| 12 Months | 64% |