

Powered by



RG-GC8-165-DT

8V165Ah



This battery is specially designed for frequent discharge deep cycle, the series battery offers reliable performance in high load situations and could provide competitive cycle performance. Suitable for Electric Vehicle and Golf cart; Industrial equipment, Floor machines, Marine, RV, and no-idle solutions.

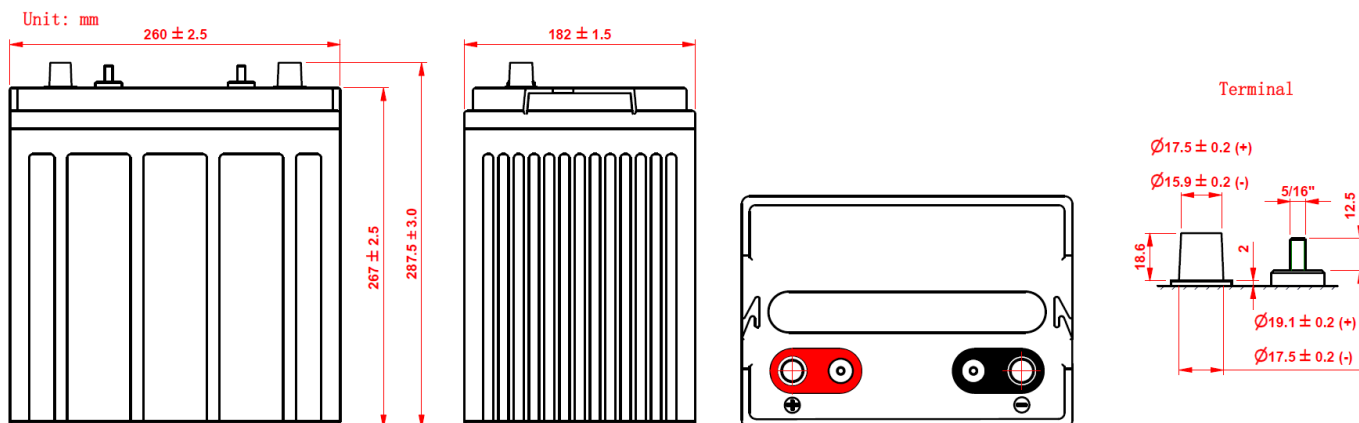
► Specification

| | |
|--|--|
| Cells Per Unit | 4 |
| Voltage Per Unit | 8 |
| Capacity | 165Ah @ 20hr-rate to 1.75V per cell @25°C (77°F) |
| Weight | Approx. 29.5 kg(64.9 lbs) - Tolerance±3% |
| Maximum Discharge Current | 1320A (5sec) |
| Internal Resistance | Approx. 3.0mΩ |
| 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 | 9.0 to 9.2 VDC/unit Average at 25°C (77°F) |
| Recommended Maximum Charging Current Limit | 49.5A |
| Equalization and Cycle Service | 9.6 to 10.0 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 | car terminal and M8 bolt |
| Container Material | ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request. |

► Dimensions :

Unit: mm

| Overall Height (H) | Container height (h) | Length (L) | Width (W) |
|--------------------|----------------------|------------|-----------|
| 287.5±3.0 | 267±2.5 | 260±2.5 | 180±1.5 |



Constant Current Discharge Characteristics Unit: A (25°C,77°F)

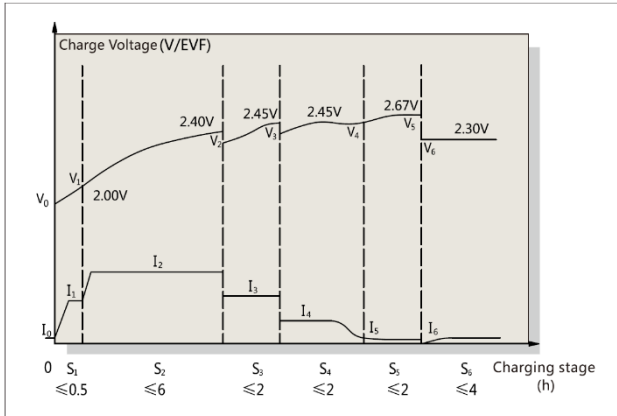
| F.V/Time | 30min | 45min | 1h | 3h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|------|------|------|-------|------|
| 1.60V | 160 | 118 | 100.0 | 41.7 | 27.6 | 18.9 | 15.70 | 8.37 |
| 1.67V | 158 | 116 | 98.3 | 41.3 | 27.4 | 18.9 | 15.68 | 8.35 |
| 1.7V | 156 | 115 | 97.4 | 40.9 | 27.2 | 18.9 | 15.65 | 8.32 |
| 1.75V | 150 | 111 | 94.3 | 40.5 | 26.8 | 18.7 | 15.57 | 8.25 |
| 1.8V | 143 | 107 | 90.3 | 38.8 | 26.1 | 18.4 | 15.32 | 8.13 |
| 1.85V | 134 | 102 | 83.7 | 35.8 | 24.2 | 17.5 | 14.72 | 7.85 |

Constant Power Discharge Characteristics Unit: W (25°C,77°F)

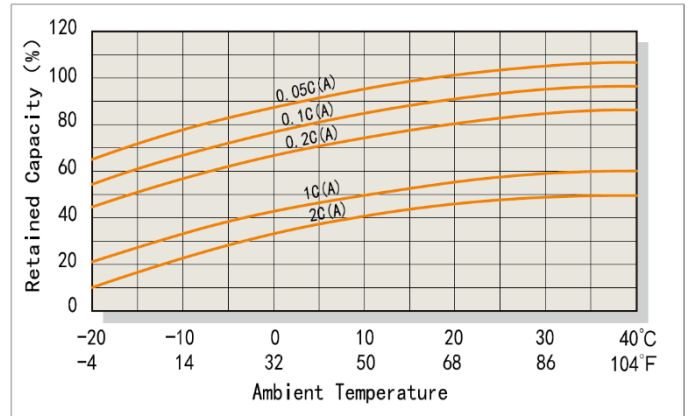
| F.V/Time | 30min | 45min | 1h | 3h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|------|------|------|-------|-------|
| 1.60V | 265 | 198 | 170.1 | 78.4 | 53.7 | 37.0 | 30.90 | 16.48 |
| 1.67V | 258 | 192 | 167.9 | 77.6 | 53.6 | 36.8 | 30.84 | 16.40 |
| 1.7V | 250 | 189 | 166.1 | 76.7 | 53.4 | 36.7 | 30.76 | 16.34 |
| 1.75V | 236 | 179 | 162.2 | 75.5 | 52.8 | 36.4 | 30.50 | 16.19 |
| 1.8V | 219 | 167 | 157.8 | 72.5 | 51.3 | 35.8 | 30.03 | 15.99 |
| 1.85V | 196 | 150 | 149.0 | 67.5 | 48.2 | 34.6 | 29.12 | 15.54 |

Ratings presented herein are subject to revision without notice.

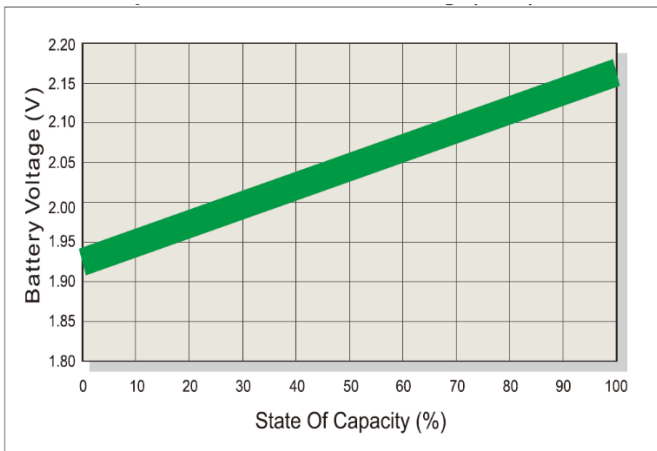
Charging characteristic curve



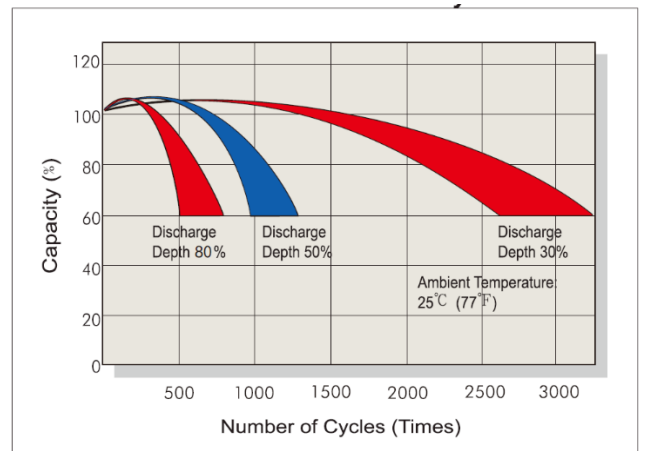
Temperature Effects On Capacity



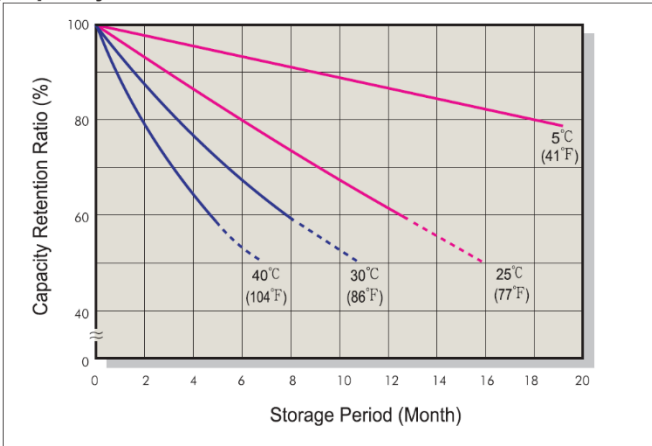
Relationship of OCV And State of Charge (20°C)



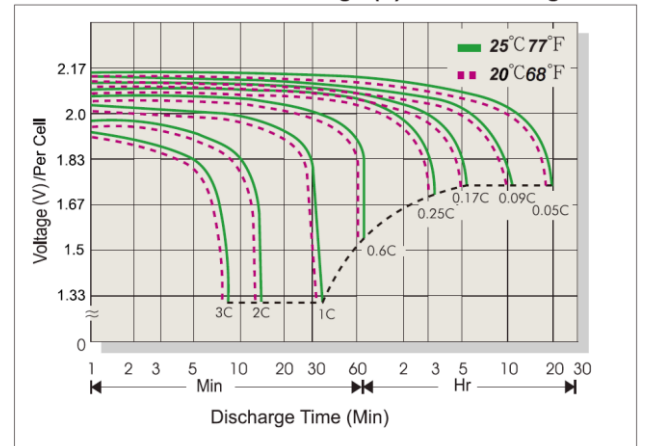
Cycle Service Life



Capacity Retention Characteristic



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% |