



Image is only for illustration purpose

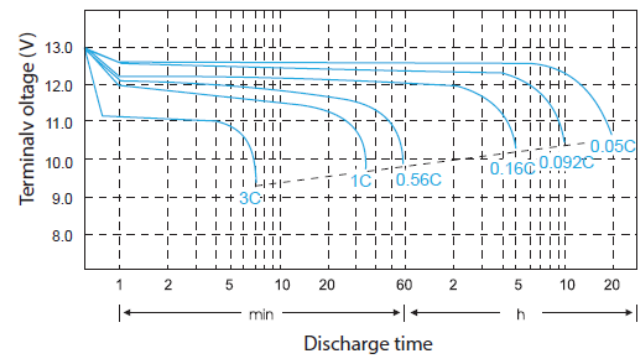
Specifications

| | | |
|-------------------------------|-------------------------------|---------------------------|
| Nominal Voltage | | 12V |
| Rated Capacity (20 hour rate) | | 9Ah |
| Dimensions | Total Height (with terminals) | 3.94 inches(100mm) |
| | Height | 3.70 inches(94mm) |
| | length | 5.94 inches(151mm) |
| | width | 2.56 inches(65mm) |
| Weight | | Approx.5.72 Pound(2.60kg) |

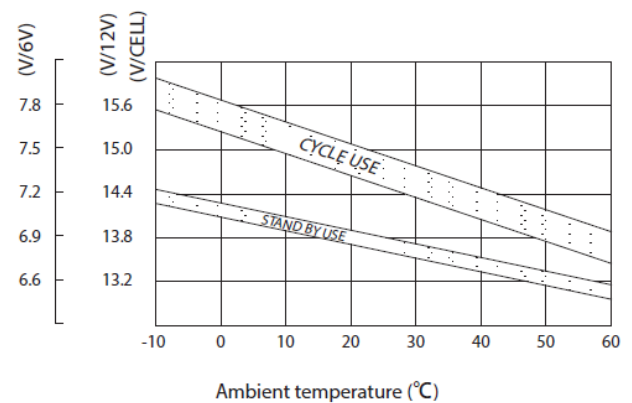
Characteristics

| | | |
|---|-------------------------------------|--|
| Capacity 77°F (25°C) | 20 hour rate (0.45A) | 9.0 Ah |
| | 10 hour rate (0.83A) | 8.3 Ah |
| | 5 hour rate (1.44A) | 7.2 Ah |
| | 1hour rate (5.40 A) | 5.4 Ah |
| | 15Minute Rate (15.6 A) | 3.9 Ah |
| Internal Resistance | Full charged Battery 77°F (25°C) | 18mΩ |
| | 104°F (40°C) | 102% |
| Capacity affected by Temperature (20hour rate) | 77°F (25°C) | 100% |
| | 32°F (0°C) | 85% |
| | 5°F (-15°C) | 65% |
| Self-Discharge 77°F (25°C) | Capacity after 3 month storage | 91% |
| | Capacity after 6 month storage | 81% |
| | Capacity after 12 month storage | 60% |
| Max. Discharge Current 77°F (25°C) | 135A(5S) | |
| Terminal | F1 \ F2 | |
| Charge (Constant Voltage) | Cycle | Initial Charging Current less than 27A |
| | | Voltage 14.4~14.7 V / 77°F (25°C) |
| | Float | Voltage 13.5~13.8V / 77°F (25°C) |

Discharge Curves 77°F(25°C)



Relationship between charge voltage and temperature



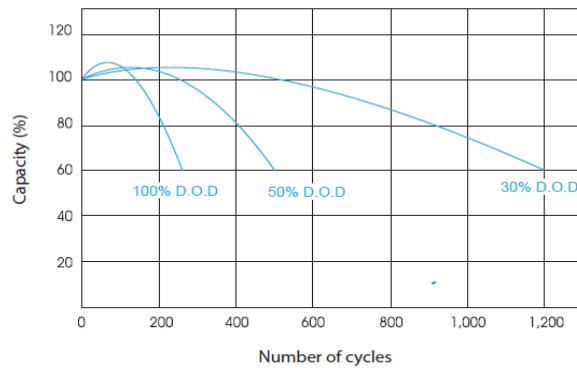
Constant Current Discharge (AMPERES @25°C)

| F.V/Time | 5Min | 10Min | 15Min | 30Min | 60Min | 2H | 3H | 4H | 5H | 10H | 20H |
|----------|------|-------|-------|-------|-------|------|------|------|------|-------|-------|
| 1.60 | 34.3 | 21.8 | 15.6 | 9.72 | 5.72 | 3.36 | 2.32 | 1.80 | 1.48 | 0.850 | 0.462 |
| 1.65 | 33.5 | 21.2 | 15.1 | 9.46 | 5.62 | 3.24 | 2.28 | 1.76 | 1.46 | 0.830 | 0.458 |
| 1.70 | 32.0 | 20.3 | 14.5 | 9.28 | 5.51 | 3.20 | 2.26 | 1.75 | 1.46 | 0.830 | 0.454 |
| 1.75 | 30.6 | 19.4 | 14.2 | 9.18 | 5.40 | 3.16 | 2.26 | 1.73 | 1.44 | 0.830 | 0.450 |
| 1.80 | 28.8 | 19.3 | 13.9 | 8.92 | 5.30 | 3.06 | 2.22 | 1.71 | 1.42 | 0.810 | 0.440 |

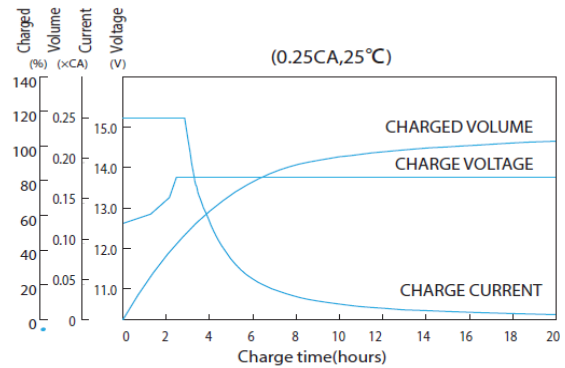
Constant Power Discharge (WATTS PER CELL@25°C)

| F.V/Time | 5Min | 10Min | 15Min | 30Min | 60Min | 2H | 3H | 4H | 5H | 10H | 20H |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|-------|
| 1.60 | 63.7 | 40.7 | 30.1 | 18.5 | 10.4 | 6.53 | 4.60 | 3.58 | 2.95 | 1.70 | 0.913 |
| 1.65 | 62.3 | 39.7 | 29.0 | 18.0 | 10.2 | 6.33 | 4.53 | 3.51 | 2.91 | 1.69 | 0.910 |
| 1.70 | 59.3 | 38.0 | 27.9 | 17.7 | 10.0 | 6.23 | 4.50 | 3.49 | 2.92 | 1.68 | 0.907 |
| 1.75 | 57.0 | 36.7 | 27.4 | 17.6 | 9.80 | 6.17 | 4.50 | 3.46 | 2.88 | 1.68 | 0.903 |
| 1.80 | 53.7 | 36.3 | 26.7 | 17.0 | 9.65 | 6.00 | 4.43 | 3.42 | 2.84 | 1.64 | 0.887 |

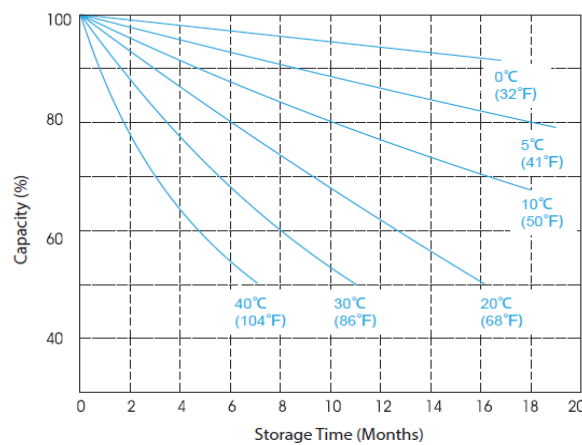
Cycle service life in relation to depth of discharge



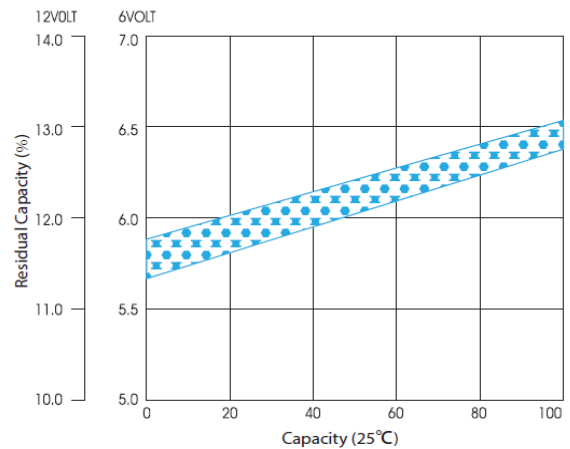
Constant voltage charge characteristic



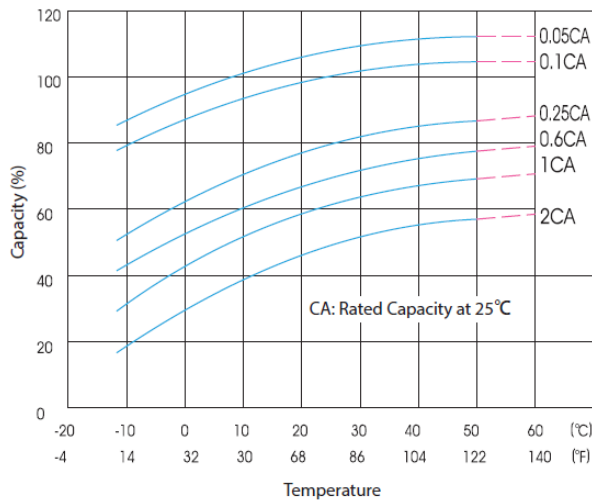
Self-Discharge Characteristics



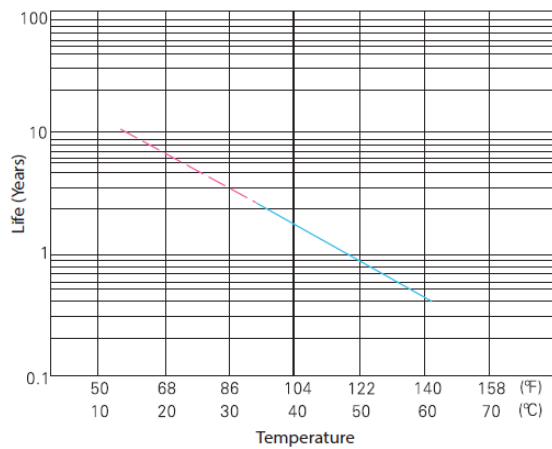
Relationship of OCV and Residual Capacity % (25°C)



■ Temperature effects on capacity



■ Temperature effects float life



Note: The operating environment temperature above 40°C should be avoided, after long term storage, the battery actual capacity would be less than the rated capacity. Full capacity will be obtained through several charge/discharge cycles.

To get the longest life, Giganet battery should be fully charged before storage.

Ordering Information

| Part Number | Product Description |
|----------------|--------------------------|
| GN-BATT-12V9AH | Giganet 12V, 9Ah Battery |