

NG2-200

2V200Ah / 20hr rate



Introduction

Genergy NG (2 Volt) series is designed for solar and other renewable energy system applications with a 15 years design life. The series battery is a genuine Gelled electrolyte valve regulated product. Featured of its performance is an enhanced cycle life in comparison to traditional AGM products.

Battery Features

- Completed maintenance free
- Electrolyte will not stratify, no equalization charge required.
- Enhanced cycle life
- Genuine Gelled thixotropic electrolyte (Silicon Gel)
- Increase durability and deep cycle ability for heavy demand applications
- Low self-discharge
- Fully tank formed plates
- Low impurity electrolyte
- Spill proof / leak proof
- Multi-position usage
- ABS case and cover VO upon request

Electrical Specification

| | |
|--|---|
| Design floating Life @ 25°C (77°F) | 15 years |
| Nominal Capacity @ 25°C /77°F | |
| 20 hour rate 10.04A to 1.75Vpc | 200.8Ah |
| 10 hour rate 19.59A to 1.75Vpc | 195.9Ah |
| Internal Resistance | |
| (Fully charged battery @ 25°C /77°F) | 1.1 mΩ |
| Max. Discharge Current @ 25°C /77°F | 1000 A (5S) |
| Charge Methods: Constant voltage charge @ 25°C /77°F | |
| Cycle Use | 2.45 ~ 2.49V |
| Max. Current | 50 A |
| Standby Use | 2.25 ~ 2.30V |
| Operating Temperature Range | -30 ~ 50°C |
| <i>Notes: battery voltage must be adjusted according to temperature. Please refer to our recommendation.</i> | |
| Self-Discharge | <3% of capacity declined per month @ 25°C (77°F). |

Battery Picture & Terminal Layout



Dimension & Weight

| Length | Dimension (± 2mm) | | | Total Height | Weight (± 2%) |
|----------|-------------------|-----------|-----------|--------------|---------------|
| | Width | Height | | | |
| 170 mm | 106 mm | 312 mm | 342 mm | 14.8 kg | |
| 6.7 inch | 4.2 inch | 12.3 inch | 13.5 inch | 32.6 lbs | |

Typical Applications

- Solar Energy System
- Wind Energy System
- Power Utility
- UPS/EPS
- BTS system
- Data Center

Constant Current Discharge (Amperes @ 25°C /77°F)

| V/cell | 10min | 15min | 20min | 25min | 30min | 35min | 40min | 45min | 50min | 55min | 1hr | 2hr | 3hr | 4hr | 5hr | 10hr | 20hr |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.60 | 356.4 | 292.1 | 264.7 | 233.4 | 210.2 | 188.9 | 177.6 | 166.1 | 156.3 | 147.4 | 143.3 | 78.01 | 55.27 | 45.94 | 37.56 | 20.07 | 10.14 |
| 1.65 | 338.4 | 277.4 | 252.7 | 224.5 | 204.7 | 183.9 | 173.2 | 162.3 | 153.1 | 144.8 | 141.3 | 76.51 | 54.21 | 44.98 | 36.69 | 19.97 | 10.14 |
| 1.70 | 324.4 | 265.9 | 242.7 | 216.2 | 198.2 | 177.8 | 167.5 | 157.1 | 148.3 | 140.5 | 137.4 | 73.94 | 52.95 | 43.92 | 35.83 | 19.78 | 10.14 |
| 1.75 | 309.5 | 253.6 | 231.9 | 207.0 | 190.8 | 171.1 | 161.6 | 151.9 | 143.8 | 136.9 | 134.5 | 71.90 | 51.80 | 42.95 | 35.06 | 19.59 | 10.04 |
| 1.80 | 293.5 | 240.6 | 220.5 | 197.5 | 183.5 | 164.2 | 155.3 | 146.2 | 138.7 | 132.4 | 130.6 | 69.33 | 50.55 | 41.89 | 34.19 | 19.08 | 9.95 |

Constant Power Discharge (Watts/cell @ 25°C /77°F)

| V/cell | 10min | 15min | 20min | 25min | 30min | 35min | 40min | 45min | 50min | 55min | 1hr | 2hr | 3hr | 4hr | 5hr | 10hr | 20hr |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|
| 1.60 | 618.9 | 507.3 | 468.3 | 423.4 | 386.2 | 353.7 | 331.3 | 308.5 | 287.6 | 269.2 | 258.4 | 139.84 | 102.09 | 86.77 | 71.46 | 40.04 | 21.12 |
| 1.65 | 597.0 | 489.3 | 452.6 | 410.3 | 376.1 | 344.3 | 322.8 | 300.9 | 280.9 | 263.5 | 253.6 | 136.92 | 101.13 | 85.81 | 70.50 | 39.66 | 21.12 |
| 1.70 | 574.0 | 470.5 | 435.8 | 395.8 | 364.1 | 333.4 | 313.1 | 292.4 | 273.6 | 257.5 | 248.7 | 133.53 | 99.20 | 84.32 | 69.44 | 38.88 | 20.84 |
| 1.75 | 549.1 | 450.0 | 417.6 | 380.1 | 351.2 | 321.6 | 302.4 | 282.9 | 265.3 | 250.5 | 242.9 | 129.16 | 96.31 | 82.25 | 68.19 | 38.59 | 20.46 |
| 1.80 | 522.1 | 427.9 | 397.9 | 363.2 | 337.4 | 308.7 | 290.8 | 272.4 | 256.1 | 242.5 | 236.1 | 124.45 | 93.71 | 80.18 | 66.65 | 38.21 | 20.27 |

Subject to revision without notice. Please contact our sales representatives for latest version.

Web: www.genergybattery.com | Email: sales@genergybattery.com

Version NO.20181101

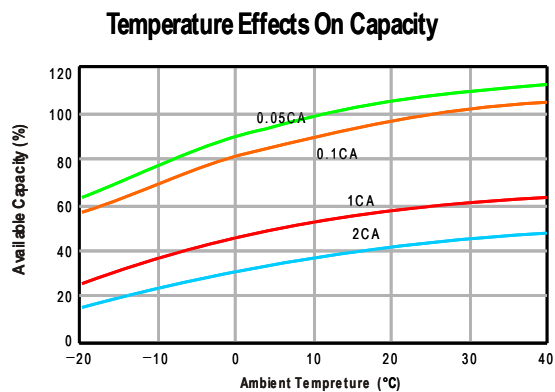
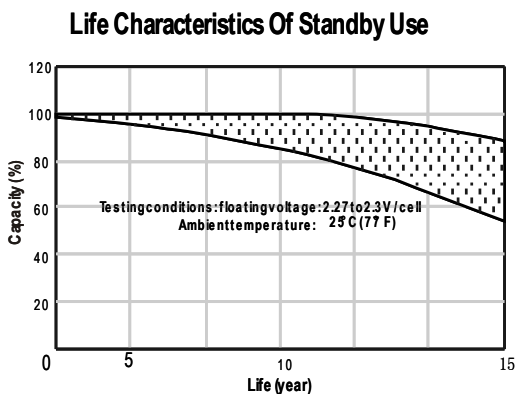
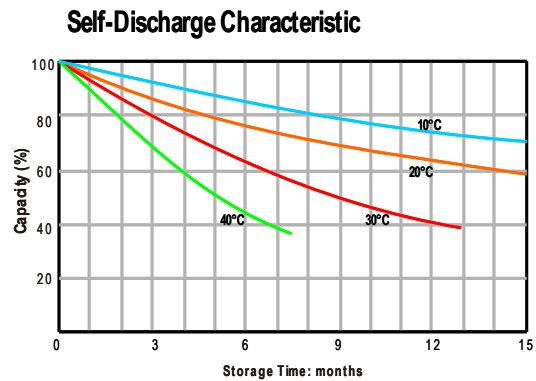
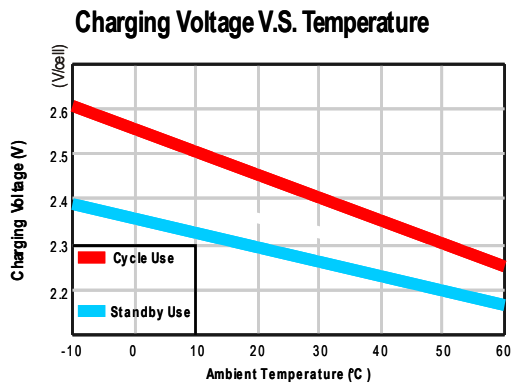
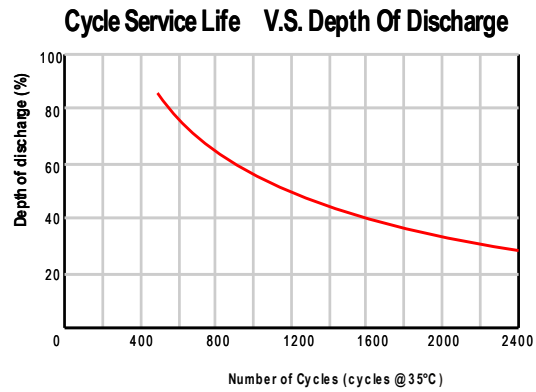
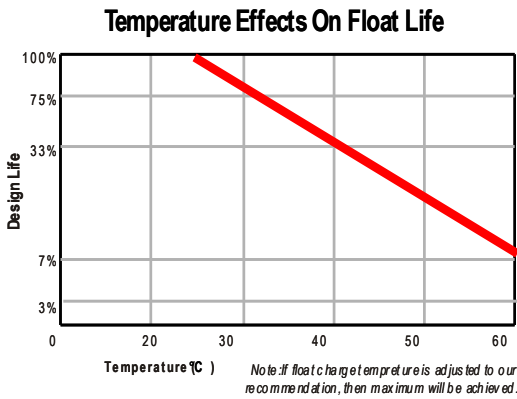
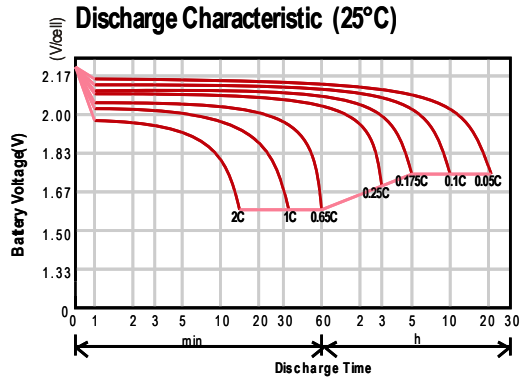
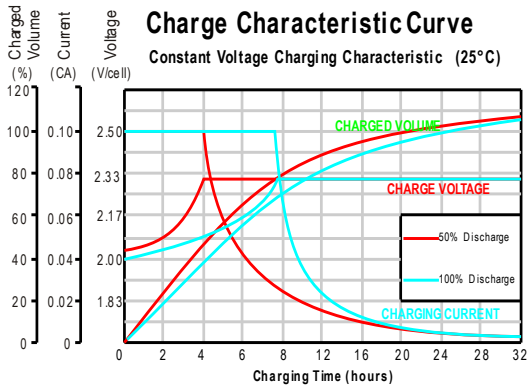
Page 1 of 2

NG2-200

2V200Ah / 20hr rate



Graphs



Subject to revision without notice. Please contact our sales representatives for latest version.

Web: www.genergybattery.com | Email: sales@genergybattery.com