

# NG2-3000

2V3000Ah / 20hr rate



### Introduction

**Generergy 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 150.5A to 1.75Vpc     | 3010Ah   |
| 10 hour rate 293.5A to 1.75Vpc     | 293.5Ah  |

### Internal Resistance

(Fully charged battery @ 25°C /77°F) ..... 0.3 mΩ

Max. Discharge Current @ 25°C /77°F .....15000 A (5S)

### Charge Methods: Constant voltage charge @ 25°C /77°F

Cycle Use ..... 2.45 ~ 2.49V

Max. Current .....750 A

Standby Use ..... 2.25 ~ 2.30V

Operating Temperature Range ..... -30 ~ 50°C

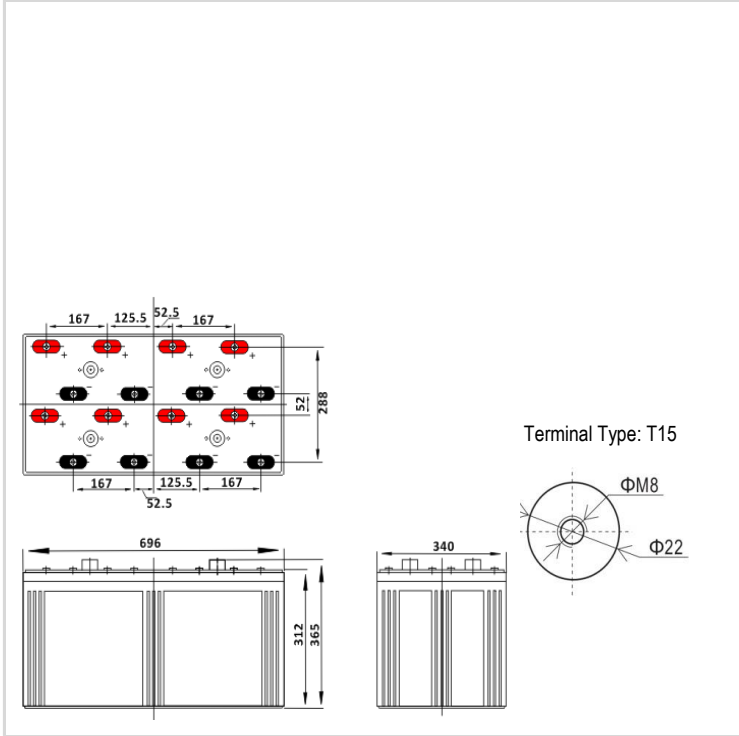
Notes: battery voltage must be adjusted according to temperature.

Please refer to our recommendation.

### 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    |           |              |               |
| 696 mm    | 340 mm            | 312 mm    | 365 mm    | 202.7 kg     |               |
| 27.4 inch | 13.4 inch         | 12.3 inch | 14.4 inch | 446.9 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   | 5340  | 4377  | 3967  | 3498  | 3150  | 2830  | 2661  | 2489  | 2342  | 2208  | 2147 | 1169 | 828.2 | 688.4 | 562.8 | 300.7 | 151.9 |
| 1.65   | 5071  | 4156  | 3787  | 3364  | 3067  | 2755  | 2595  | 2432  | 2294  | 2170  | 2118 | 1147 | 812.3 | 674.0 | 549.9 | 299.3 | 151.9 |
| 1.70   | 4862  | 3985  | 3638  | 3240  | 2970  | 2664  | 2511  | 2354  | 2222  | 2106  | 2059 | 1108 | 793.5 | 658.1 | 536.9 | 296.4 | 151.9 |
| 1.75   | 4637  | 3801  | 3475  | 3102  | 2860  | 2563  | 2421  | 2276  | 2155  | 2051  | 2016 | 1077 | 776.2 | 643.7 | 525.3 | 293.5 | 150.5 |
| 1.80   | 4398  | 3605  | 3304  | 2959  | 2749  | 2461  | 2327  | 2190  | 2079  | 1984  | 1957 | 1039 | 757.4 | 627.8 | 512.3 | 285.9 | 149.1 |

### 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   | 9275  | 7602  | 7018  | 6344  | 5788  | 5300  | 4965  | 4623  | 4310  | 4035  | 3873 | 2095 | 1530 | 1300 | 1071 | 600.0 | 316.6 |
| 1.65   | 8946  | 7332  | 6783  | 6149  | 5636  | 5160  | 4838  | 4510  | 4210  | 3949  | 3800 | 2052 | 1515 | 1286 | 1056 | 594.2 | 316.6 |
| 1.70   | 8602  | 7050  | 6531  | 5931  | 5456  | 4996  | 4692  | 4381  | 4100  | 3858  | 3727 | 2001 | 1486 | 1264 | 1041 | 582.7 | 312.3 |
| 1.75   | 8228  | 6743  | 6258  | 5695  | 5263  | 4818  | 4531  | 4239  | 3976  | 3753  | 3639 | 1935 | 1443 | 1232 | 1022 | 578.3 | 306.6 |
| 1.80   | 7824  | 6412  | 5963  | 5442  | 5055  | 4627  | 4357  | 4082  | 3837  | 3634  | 3537 | 1865 | 1404 | 1201 | 999  | 572.6 | 303.8 |

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

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Graphs

