

# NF12-100G

12V100Ah / 10hr rate



## Introduction

**Generagy NF-G series** is designed for telecommunication UPS/EPS system with 12-year design life in float service. The battery is featured of high consistency, excellent performance and reliable standby service life.

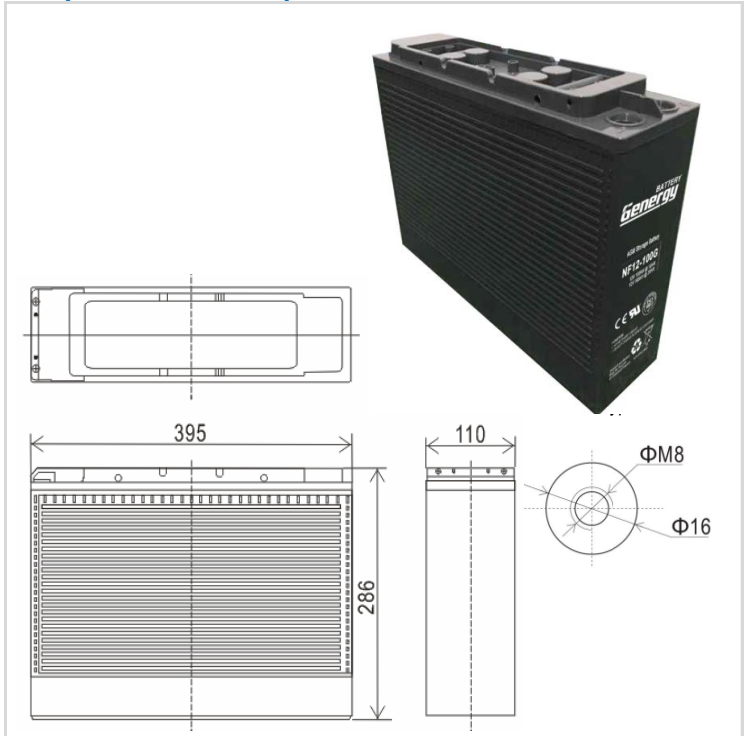
## Battery Features

- Compactness
- ETSI 19 inch / 23 inch integration
- Rackable standard component
- High power to volume ratio
- Modularity
- Long life
- Front connection and terminal access
- Central gassing system and hinged front covers on all models
- Fully tank formed plates
- Low impurity electrolyte
- Multi-position usage
- Spill proof / leak proof
- ABS case and cover VO upon request
- Very high purity lead

## Electrical Specification

|  |   |
|--|---|
| Design floating Life @ 25°C (77°F)   | 12 years  |
| Nominal Capacity @ 25°C /77°F  |   |
| 20 hour rate 5.29A to 1.75Vpc  | 105 Ah  |
| 10 hour rate 10.09A to 1.75Vp  | 100 Ah  |
| Internal Resistance  |   |
| (Fully charged battery @ 25°C /77°F )  | 6mΩ   |
| Max. Discharge Current @ 25°C /77°F  | 800 A (5S)  |
| Charge Methods: Constant voltage charge @ 25°C /77°F   |   |
| Cycle Use  | 14.7 ~ 14.9V                                      |
| Max. Current   | 25 A  |
| Standby Use  | 13.6 - 13.8V                                      |
| 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    | Total Height |              |               |
| 395 mm    | 110 mm            | 286 mm    | 286 mm       | 32.3 kg      |               |
| 15.6 inch | 4.3 inch          | 11.3 inch | 11.3 inch    | 71.2 lbs     |               |

## Typical Applications

- Telecommunications
- Power Utility
- Data Center
- UPS & EPS

## Certificates



## 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   | 276.6 | 211.2 | 183.7 | 156.2 | 134.8 | 119.7 | 110.6 | 101.5 | 93.4  | 86.2  | 80.7 | 42.92 | 30.47 | 24.73 | 20.19 | 10.28 | 5.39 |
| 1.65   | 263.1 | 200.9 | 175.8 | 150.7 | 131.7 | 116.8 | 108.0 | 99.1  | 91.3  | 84.4  | 79.1 | 42.02 | 29.96 | 24.27 | 19.77 | 10.28 | 5.39 |
| 1.70   | 246.9 | 188.5 | 166.2 | 143.9 | 127.5 | 113.1 | 104.7 | 96.3  | 88.9  | 82.4  | 77.6 | 41.12 | 29.34 | 23.75 | 19.36 | 10.18 | 5.34 |
| 1.75   | 230.7 | 176.1 | 156.6 | 137.0 | 123.4 | 109.4 | 101.5 | 93.5  | 86.5  | 80.4  | 76.0 | 40.22 | 28.72 | 23.24 | 18.95 | 10.09 | 5.29 |
| 1.80   | 213.2 | 162.7 | 145.9 | 129.1 | 118.3 | 104.9 | 97.4  | 90.0  | 83.6  | 78.1  | 74.3 | 39.20 | 28.10 | 22.67 | 18.43 | 10.00 | 5.19 |

## 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   | 492.5 | 376.0 | 326.5 | 277.1 | 238.6 | 213.4 | 199.1 | 184.9 | 171.3 | 159.5 | 150.1 | 80.24 | 58.01 | 46.96 | 38.31 | 19.68 | 10.41 |
| 1.65   | 479.0 | 365.7 | 316.9 | 268.1 | 230.4 | 205.8 | 192.3 | 178.7 | 165.8 | 154.7 | 146.0 | 77.84 | 57.50 | 46.55 | 38.00 | 19.52 | 10.33 |
| 1.70   | 461.5 | 352.3 | 305.2 | 258.2 | 222.2 | 198.4 | 185.7 | 173.0 | 161.0 | 150.7 | 142.9 | 76.05 | 56.98 | 46.14 | 37.70 | 19.36 | 10.24 |
| 1.75   | 442.6 | 337.8 | 292.9 | 247.9 | 213.9 | 190.9 | 178.9 | 166.9 | 155.5 | 145.9 | 138.8 | 73.65 | 56.36 | 45.67 | 37.39 | 19.20 | 10.16 |
| 1.80   | 421.0 | 321.4 | 278.4 | 235.5 | 203.6 | 181.6 | 170.6 | 159.7 | 149.4 | 140.8 | 134.7 | 71.26 | 55.85 | 45.26 | 37.08 | 19.04 | 10.08 |

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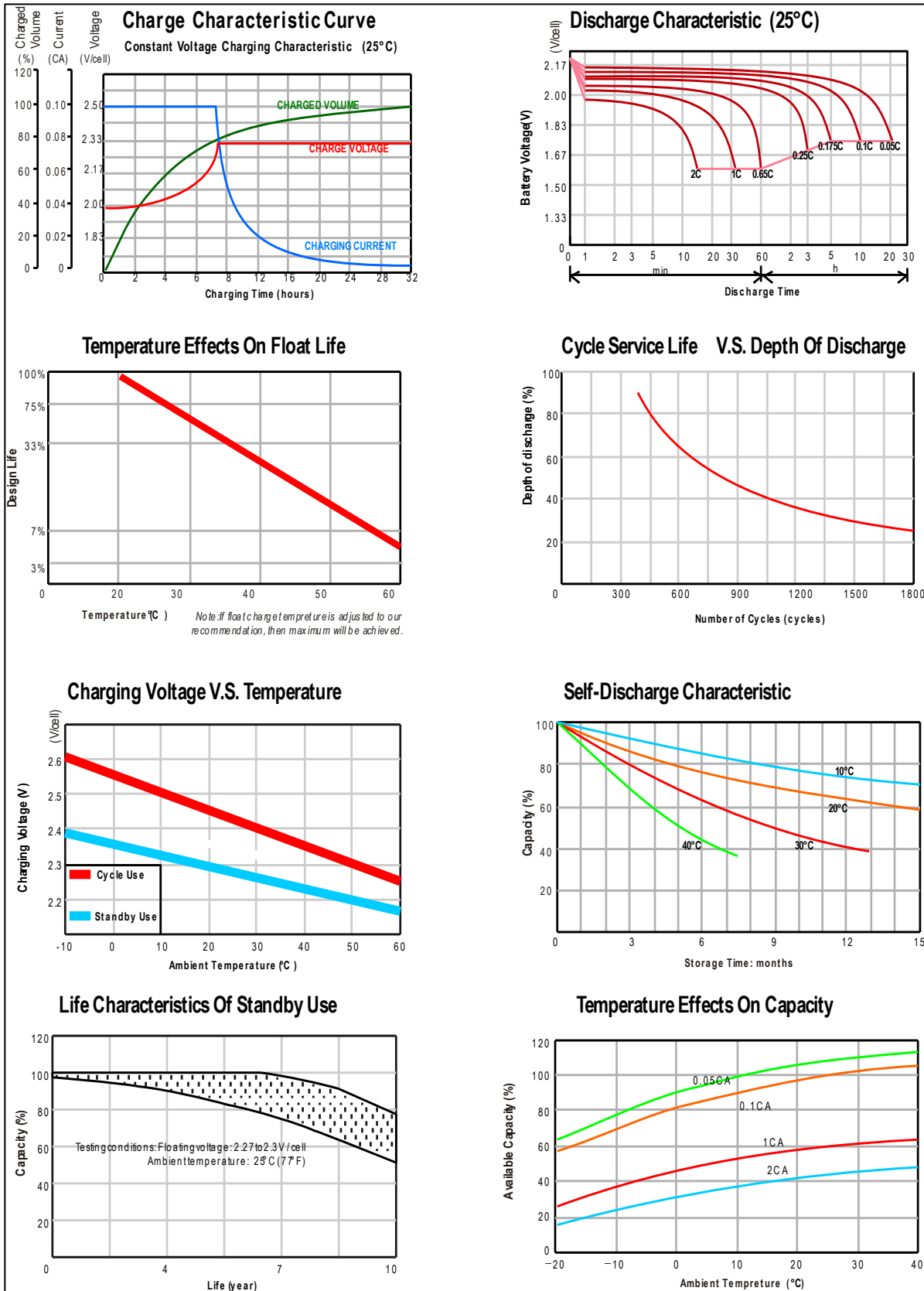
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## Graphs



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