

NF12-105G

12V105Ah / 10hr rate



Introduction

Genergy 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.

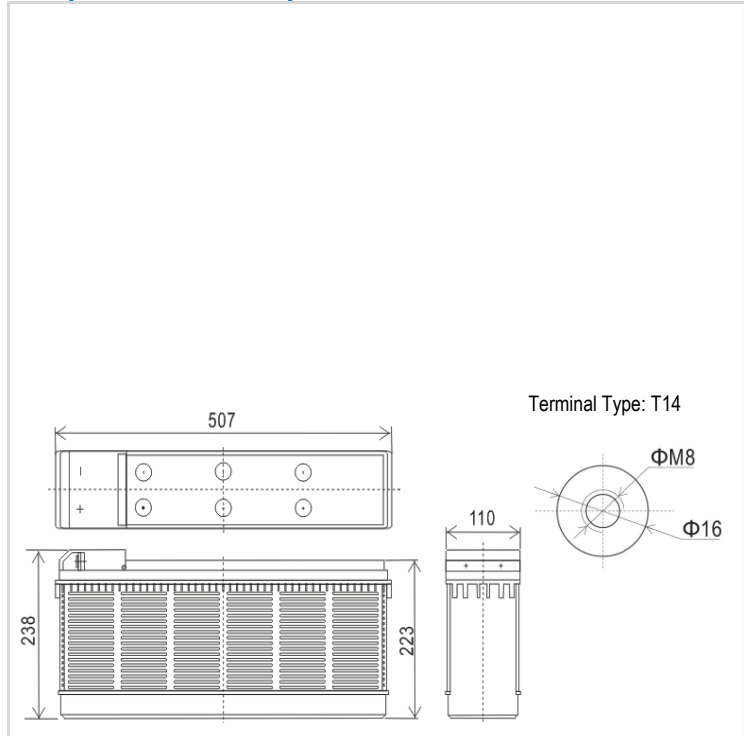
Battery Features

- 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 5.56A to 1.75Vpc | 111.2 Ah |
| 10 hour rate 10.59A to 1.75Vpc | 105.9 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 | 26 A |
| Standby Use | 13.6 - 13.8V |
| Operating Temperature Range | -30 ~ 50°C |
| <i>Notes: battery voltage must be adjusted according to temperature.</i> | |
| <i>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 | Case Height | | |
| 507 mm | 110 mm | 223 mm | 238 mm | 32.5 kg | |
| 20.0 inch | 4.3 inch | 8.8 inch | 9.4 inch | 71.7 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 | 278.8 | 212.8 | 185.2 | 157.5 | 135.8 | 120.6 | 111.4 | 102.3 | 95.1 | 89.8 | 85.8 | 44.96 | 31.21 | 24.93 | 20.35 | 10.80 | 5.66 |
| 1.65 | 265.2 | 202.5 | 177.2 | 151.9 | 132.7 | 117.8 | 108.8 | 99.9 | 93.0 | 88.0 | 84.2 | 44.06 | 30.69 | 24.46 | 19.93 | 10.80 | 5.66 |
| 1.70 | 248.9 | 190.0 | 167.5 | 145.0 | 128.5 | 114.0 | 105.6 | 97.1 | 90.6 | 86.0 | 82.6 | 43.15 | 30.07 | 23.94 | 19.52 | 10.69 | 5.61 |
| 1.75 | 232.6 | 177.5 | 157.8 | 138.1 | 124.4 | 110.3 | 102.3 | 94.2 | 88.2 | 84.0 | 81.1 | 42.24 | 29.45 | 23.42 | 19.10 | 10.59 | 5.56 |
| 1.80 | 214.9 | 164.0 | 147.1 | 130.1 | 119.2 | 105.7 | 98.2 | 90.7 | 85.3 | 81.7 | 79.3 | 41.22 | 28.82 | 22.85 | 18.58 | 10.38 | 5.45 |

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 | 466.6 | 356.2 | 314.0 | 271.7 | 238.5 | 215.1 | 200.7 | 186.4 | 172.7 | 160.7 | 151.3 | 80.90 | 58.48 | 47.35 | 38.62 | 20.66 | 10.93 |
| 1.65 | 453.9 | 346.5 | 304.7 | 262.9 | 230.1 | 207.5 | 193.8 | 180.1 | 167.2 | 155.9 | 147.1 | 78.49 | 57.96 | 46.93 | 38.31 | 20.50 | 10.85 |
| 1.70 | 437.2 | 333.8 | 293.5 | 253.2 | 221.8 | 200.0 | 187.2 | 174.4 | 162.3 | 151.9 | 144.0 | 76.68 | 57.44 | 46.52 | 38.00 | 20.33 | 10.76 |
| 1.75 | 419.3 | 320.1 | 281.6 | 243.1 | 213.5 | 192.4 | 180.3 | 168.2 | 156.8 | 147.1 | 139.9 | 74.26 | 56.82 | 46.05 | 37.68 | 20.16 | 10.67 |
| 1.80 | 398.9 | 304.5 | 267.7 | 230.9 | 203.2 | 183.1 | 172.0 | 160.9 | 150.6 | 141.9 | 135.7 | 71.85 | 56.30 | 45.64 | 37.37 | 20.00 | 10.58 |

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

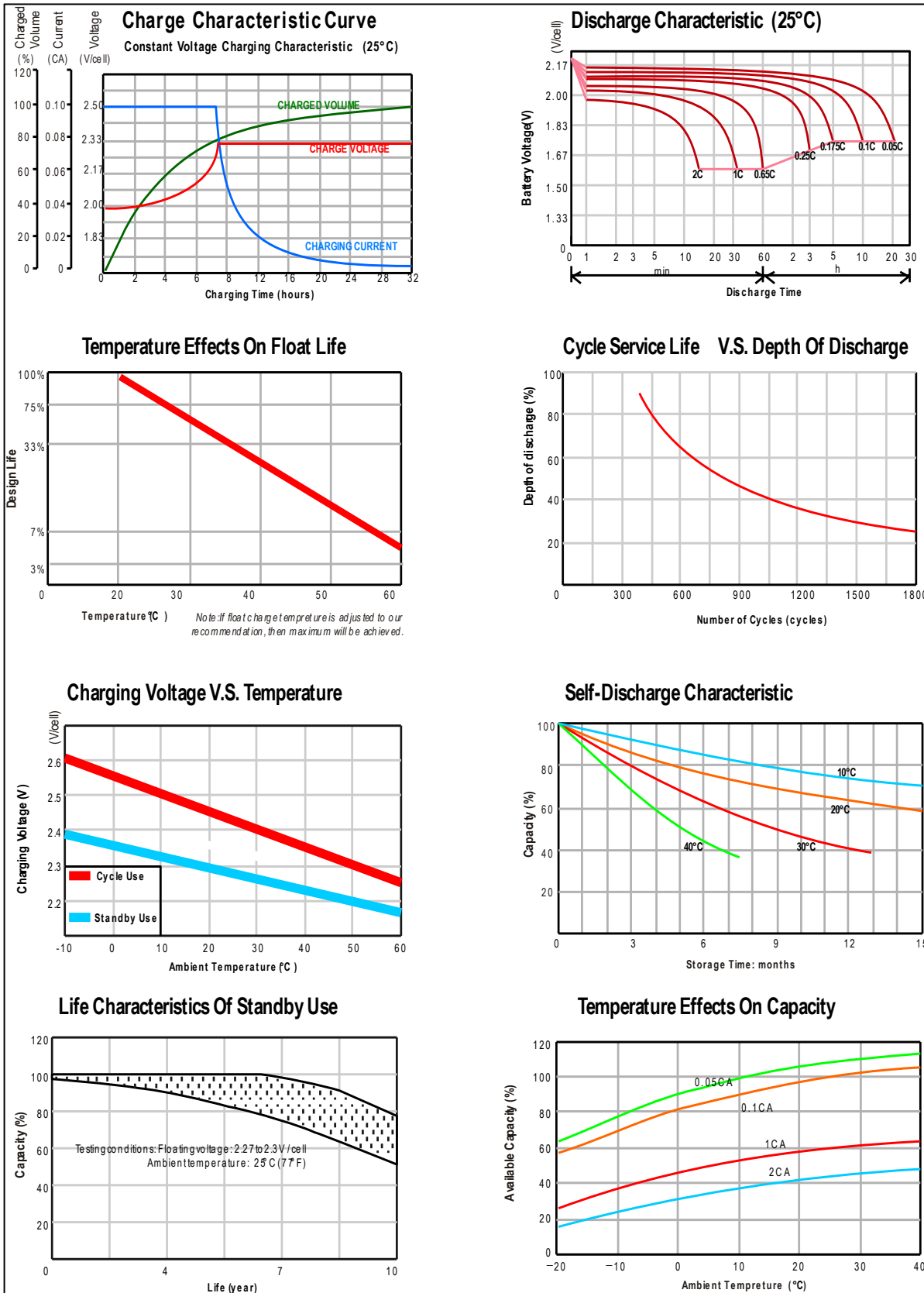
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Graphs



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