

NS12-7

12V7Ah / 20hr rate



Introduction

Generagy NS UPS (4.5Ah-28Ah) series is designed for standby use with 5-year design life in float service. The series battery is featured of high consistency, excellent performance and reliable standby service life. It is widely applied in UPS/EPS, medical equipment, emergency light and security system.

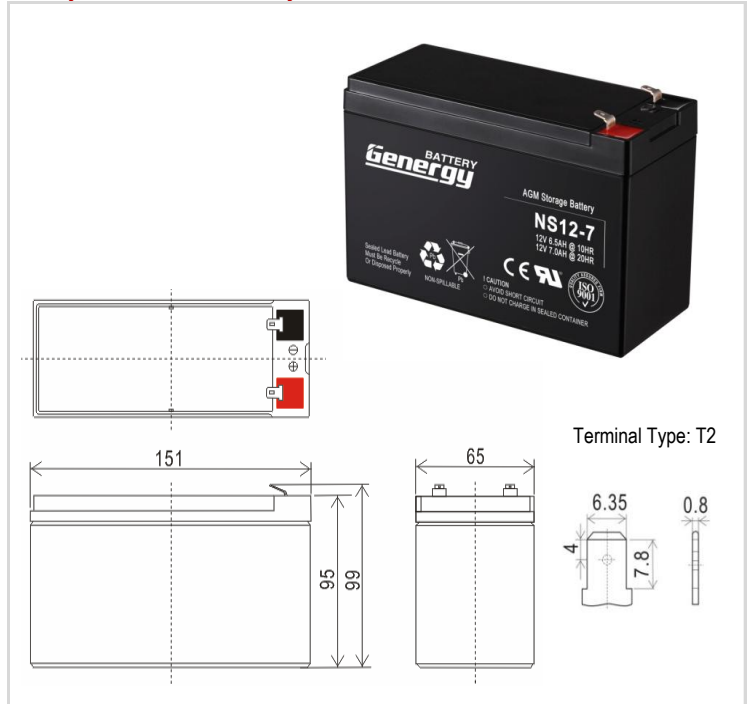
Battery Features

- Low self-discharge
- Fully tank formed plates
- Low impurity electrolyte
- Spill proof / leak proof
- Multi-position usage
- ABS case and cover VO upon request
- very high purity lead

Electrical Specification

| | |
|--|--------------|
| Design floating Life @ 25°C (77°F) | 5 years |
| Nominal Capacity @ 25°C /77°F | |
| 20 hour rate 0.36A to 1.75Vpc | 7.2 Ah |
| 10 hour rate 0.68A to 1.75Vpc | 6.8 Ah |
| Internal Resistance | |
| (Fully charged battery @ 25°C /77°F) | 34 mΩ |
| Max. Discharge Current @ 25°C /77°F | 105 A (5S) |
| Charge Methods: Constant voltage charge @ 25°C /77°F | |
| Cycle Use | 14.7 ~ 14.9V |
| Max. Current | 1.7 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

| | Dimension (± 2mm) | | | | Weight (± 2%) |
|--|-------------------|----------|----------|--------------|---------------|
| | Length | Width | Height | Total Height | |
| | 151 mm | 65 mm | 95 mm | 99 mm | 2.14 kg |
| | 5.9 inch | 2.6 inch | 3.7 inch | 3.9 inch | 4.7 lbs |

Typical Applications

- UPS & EPS
- Security Power Supply
- Power Utility
- Electrical Toys

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 | 16.39 | 12.51 | 10.69 | 8.87 | 7.50 | 6.52 | 5.99 | 5.46 | 5.03 | 4.65 | 4.37 | 2.25 | 1.75 | 1.50 | 1.29 | 0.71 | 0.37 |
| 1.65 | 15.70 | 11.98 | 10.25 | 8.52 | 7.23 | 6.28 | 5.78 | 5.28 | 4.88 | 4.53 | 4.28 | 2.20 | 1.71 | 1.47 | 1.27 | 0.70 | 0.37 |
| 1.70 | 15.00 | 11.45 | 9.81 | 8.16 | 6.96 | 6.04 | 5.57 | 5.10 | 4.73 | 4.41 | 4.19 | 2.15 | 1.67 | 1.44 | 1.25 | 0.69 | 0.36 |
| 1.75 | 14.31 | 10.92 | 9.37 | 7.81 | 6.70 | 5.81 | 5.37 | 4.93 | 4.59 | 4.30 | 4.10 | 2.09 | 1.62 | 1.40 | 1.23 | 0.68 | 0.36 |
| 1.80 | 13.62 | 10.40 | 8.94 | 7.48 | 6.47 | 5.60 | 5.18 | 4.77 | 4.45 | 4.18 | 4.01 | 2.04 | 1.56 | 1.36 | 1.21 | 0.67 | 0.35 |

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 | 31.39 | 23.96 | 20.38 | 16.80 | 14.19 | 12.33 | 11.45 | 10.57 | 9.89 | 9.11 | 8.43 | 4.61 | 3.52 | 3.01 | 2.36 | 1.44 | 0.78 |
| 1.65 | 30.12 | 22.99 | 19.56 | 16.12 | 13.67 | 11.83 | 10.98 | 10.13 | 9.47 | 8.72 | 8.07 | 4.40 | 3.42 | 2.94 | 2.32 | 1.42 | 0.76 |
| 1.70 | 28.85 | 22.02 | 18.76 | 15.51 | 13.23 | 11.41 | 10.57 | 9.73 | 9.09 | 8.35 | 7.71 | 4.19 | 3.33 | 2.88 | 2.28 | 1.41 | 0.75 |
| 1.75 | 27.81 | 21.23 | 18.06 | 14.89 | 12.70 | 10.91 | 10.09 | 9.28 | 8.67 | 7.96 | 7.35 | 3.98 | 3.23 | 2.80 | 2.24 | 1.39 | 0.75 |
| 1.80 | 26.54 | 20.26 | 17.27 | 14.27 | 12.26 | 10.49 | 9.71 | 8.93 | 8.35 | 7.67 | 7.08 | 3.83 | 3.12 | 2.72 | 2.18 | 1.38 | 0.71 |

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

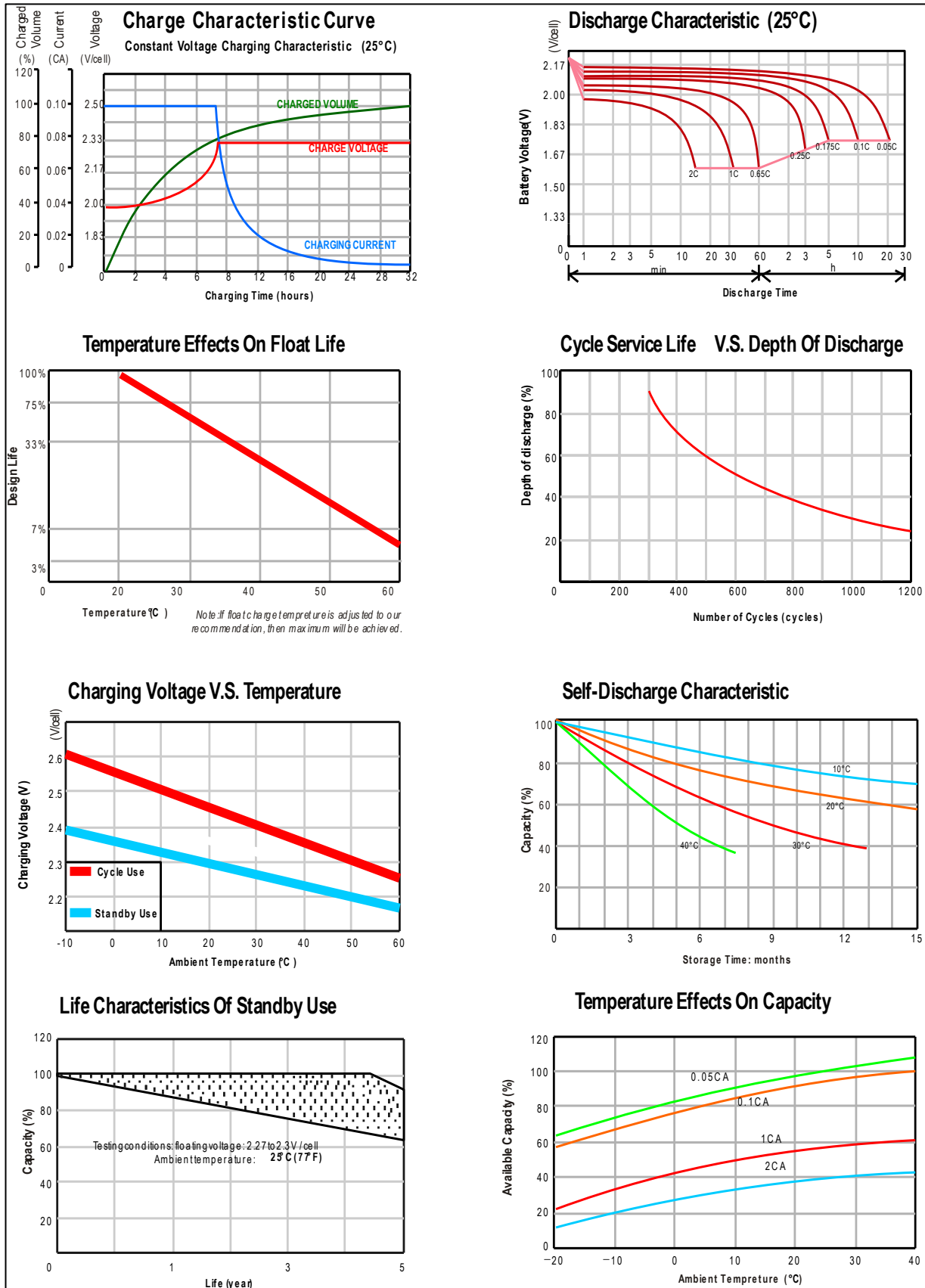
Web: www.generagybattery.com | Email: sales@generagybattery.com

NS12-7

12V7Ah / 20hr rate



Graphs



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

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