

EB12-8.5

12V8.5Ah / 10hr rate



Introduction

Generagy EB series is designed for European standard 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.

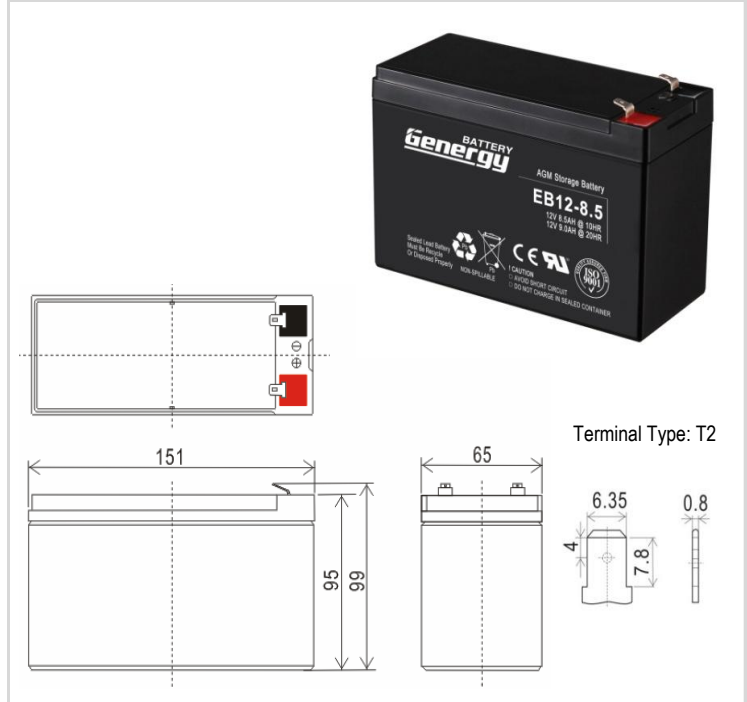
Battery Features

- 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 @ 20°C (68°F) | 5 years |
| Nominal Capacity @ 20°C /68°F | |
| 20 hour rate 0.45A to 1.75Vpc | 9 Ah |
| 10 hour rate 0.85A to 1.8Vpc | 8.5 Ah |
| Internal Resistance | |
| (Fully charged battery @ 20°C /68°F) | 25 mΩ |
| Max. Discharge Current @ 20°C /68°F | 135 A (5S) |
| Charge Methods: Constant voltage charge @ 20°C /68°F | |
| Cycle Use | 14.7 ~ 14.9V |
| Max. Current | 2.1 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 @ 20°C (68°F). | |

Battery Picture & Terminal Layout



Dimension & Weight

| Length | Dimension (± 2mm) | | | Total Height | Weight (± 2%) |
|----------|-------------------|----------|----------|--------------|---------------|
| | Width | Height | | | |
| 151 mm | 65 mm | 95 mm | 99 mm | 2.44 kg | |
| 5.9 inch | 2.6 inch | 3.7 inch | 3.9 inch | 5.4 lbs | |

Typical Applications

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

Certificates



Constant Current Discharge (Amperes @ 20°C /68°F)

| V/cell | 10min | 15min | 20min | 25min | 30min | 35min | 40min | 45min | 50min | 55min | 1hr | 2hr | 3hr | 4hr | 5hr | 10hr | 20hr |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.60 | 20.87 | 15.93 | 13.61 | 11.29 | 9.46 | 8.30 | 7.63 | 6.95 | 6.36 | 5.86 | 5.44 | 2.87 | 2.22 | 1.91 | 1.65 | 0.90 | 0.47 |
| 1.65 | 19.99 | 15.26 | 13.05 | 10.84 | 9.13 | 8.00 | 7.36 | 6.73 | 6.17 | 5.71 | 5.33 | 2.80 | 2.16 | 1.87 | 1.62 | 0.89 | 0.47 |
| 1.70 | 19.10 | 14.58 | 12.49 | 10.39 | 8.78 | 7.69 | 7.09 | 6.50 | 5.98 | 5.56 | 5.21 | 2.73 | 2.12 | 1.83 | 1.60 | 0.88 | 0.46 |
| 1.75 | 18.22 | 13.91 | 11.93 | 9.95 | 8.45 | 7.40 | 6.84 | 6.28 | 5.80 | 5.41 | 5.10 | 2.67 | 2.05 | 1.78 | 1.57 | 0.86 | 0.46 |
| 1.80 | 17.34 | 13.24 | 11.38 | 9.52 | 8.15 | 7.13 | 6.60 | 6.07 | 5.62 | 5.26 | 4.98 | 2.60 | 1.98 | 1.74 | 1.54 | 0.85 | 0.44 |

Constant Power Discharge (Watts/cell @ 20°C /68°F)

| V/cell | 10min | 15min | 20min | 25min | 30min | 35min | 40min | 45min | 50min | 55min | 1hr | 2hr | 3hr | 4hr | 5hr | 10hr | 20hr |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60 | 39.97 | 30.51 | 25.95 | 21.39 | 17.94 | 15.71 | 14.58 | 13.46 | 12.64 | 11.73 | 10.91 | 5.87 | 4.51 | 3.83 | 3.01 | 1.83 | 0.99 |
| 1.65 | 38.36 | 29.28 | 24.90 | 20.53 | 17.27 | 15.07 | 13.98 | 12.89 | 12.11 | 11.23 | 10.45 | 5.60 | 4.39 | 3.75 | 2.96 | 1.81 | 0.97 |
| 1.70 | 36.74 | 28.05 | 23.90 | 19.74 | 16.71 | 14.52 | 13.45 | 12.39 | 11.62 | 10.76 | 9.99 | 5.34 | 4.28 | 3.66 | 2.90 | 1.79 | 0.95 |
| 1.75 | 35.42 | 27.04 | 23.00 | 18.96 | 16.03 | 13.89 | 12.85 | 11.82 | 11.09 | 10.26 | 9.53 | 5.07 | 4.15 | 3.57 | 2.85 | 1.77 | 0.95 |
| 1.80 | 33.80 | 25.80 | 21.99 | 18.17 | 15.47 | 13.36 | 12.37 | 11.37 | 10.68 | 9.89 | 9.20 | 4.88 | 4.00 | 3.46 | 2.77 | 1.75 | 0.90 |

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

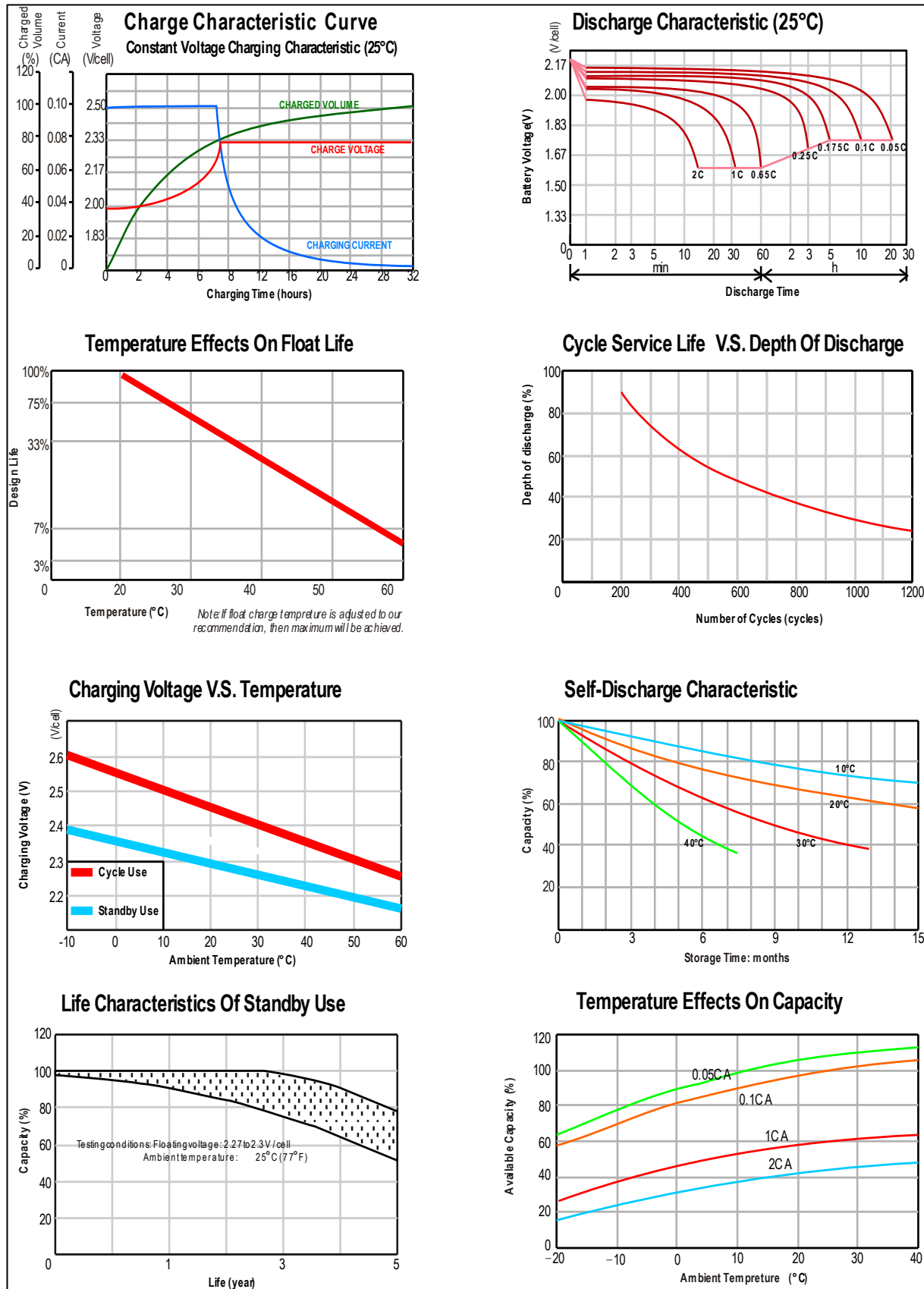
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Graphs



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