

EB12-4.5

12V4.5Ah / 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.

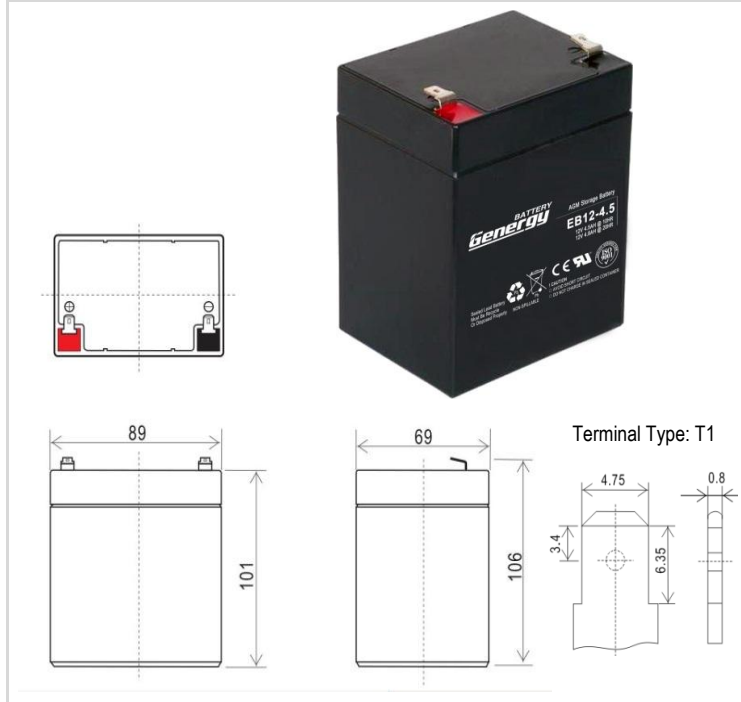
Battery Features

- 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 0.241A to 1.75Vpc | 4.8 Ah |
| 10 hour rate 0.45A to 1.8Vpc | 4.5 Ah |
| Internal Resistance | |
| (Fully charged battery @ 20°C /68°F) | 30 mΩ |
| Max. Discharge Current @ 20°C /68°F | 75 A (5S) |
| Charge Methods: Constant voltage charge @ 20°C /68°F | |
| Cycle Use | 14.7 ~ 14.9V |
| Max. Current | 1.1 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) | | | Weight (± 2%) |
|----------|-------------------|----------|--------------|---------------|
| | Width | Height | Total Height | |
| 89 mm | 69 mm | 101 mm | 106 mm | 1.51 kg |
| 3.5 inch | 2.7 inch | 4.0 inch | 4.2 inch | 3.3 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 | 10.96 | 8.37 | 7.15 | 5.93 | 5.03 | 4.36 | 4.01 | 3.65 | 3.35 | 3.10 | 2.91 | 1.51 | 1.17 | 1.00 | 0.87 | 0.47 | 0.247 |
| 1.65 | 10.50 | 8.01 | 6.85 | 5.70 | 4.86 | 4.20 | 3.87 | 3.53 | 3.25 | 3.03 | 2.85 | 1.47 | 1.14 | 0.98 | 0.85 | 0.47 | 0.247 |
| 1.70 | 10.03 | 7.66 | 6.56 | 5.46 | 4.68 | 4.04 | 3.73 | 3.41 | 3.15 | 2.94 | 2.79 | 1.44 | 1.12 | 0.96 | 0.84 | 0.46 | 0.241 |
| 1.75 | 9.57 | 7.31 | 6.26 | 5.22 | 4.50 | 3.89 | 3.59 | 3.30 | 3.05 | 2.87 | 2.73 | 1.40 | 1.08 | 0.94 | 0.82 | 0.45 | 0.241 |
| 1.80 | 9.11 | 6.95 | 5.98 | 5.00 | 4.35 | 3.74 | 3.47 | 3.19 | 2.96 | 2.79 | 2.67 | 1.37 | 1.04 | 0.91 | 0.81 | 0.45 | 0.234 |

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 | 20.99 | 16.03 | 13.63 | 11.23 | 9.37 | 8.25 | 7.66 | 7.07 | 6.69 | 6.21 | 5.84 | 3.08 | 2.29 | 2.01 | 1.58 | 0.96 | 0.52 |
| 1.65 | 20.14 | 15.38 | 13.08 | 10.78 | 9.02 | 7.91 | 7.34 | 6.77 | 6.42 | 5.95 | 5.60 | 2.94 | 2.23 | 1.97 | 1.55 | 0.95 | 0.51 |
| 1.70 | 19.30 | 14.73 | 12.55 | 10.37 | 8.73 | 7.63 | 7.07 | 6.50 | 6.16 | 5.70 | 5.36 | 2.80 | 2.17 | 1.92 | 1.52 | 0.94 | 0.50 |
| 1.75 | 18.60 | 14.20 | 12.08 | 9.96 | 8.37 | 7.29 | 6.75 | 6.21 | 5.88 | 5.44 | 5.11 | 2.66 | 2.10 | 1.87 | 1.50 | 0.93 | 0.50 |
| 1.80 | 17.75 | 13.55 | 11.55 | 9.54 | 8.08 | 7.02 | 6.50 | 5.97 | 5.66 | 5.25 | 4.94 | 2.56 | 2.03 | 1.82 | 1.46 | 0.92 | 0.47 |

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

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

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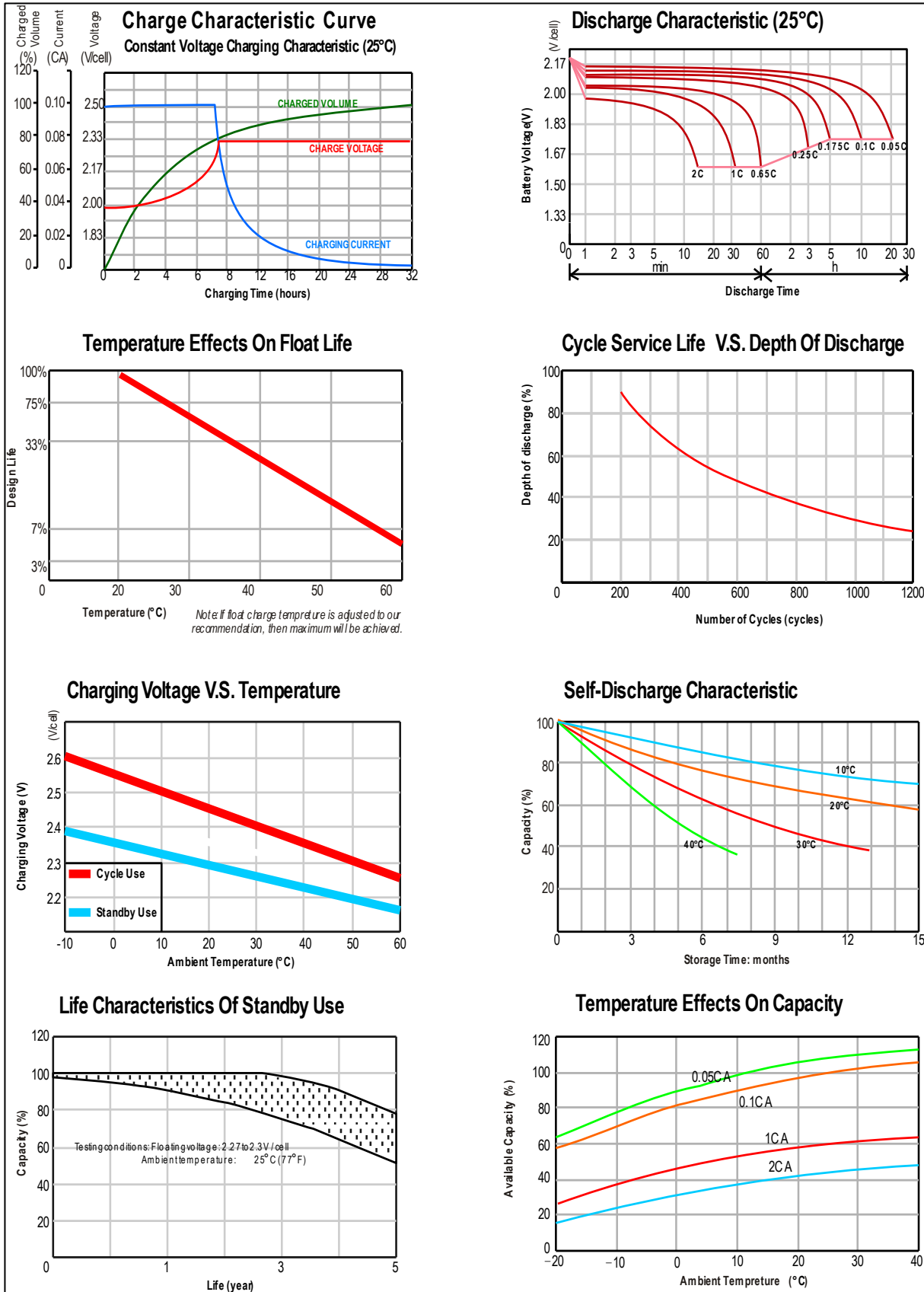
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Graphs



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