

# EB12-33

12V33Ah / 10hr rate



## Introduction

**Generagy EB series** is designed for European standard with 12-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 float service, UPS/EPS, medical equipment, telecom, photovoltaic, control system and security system.

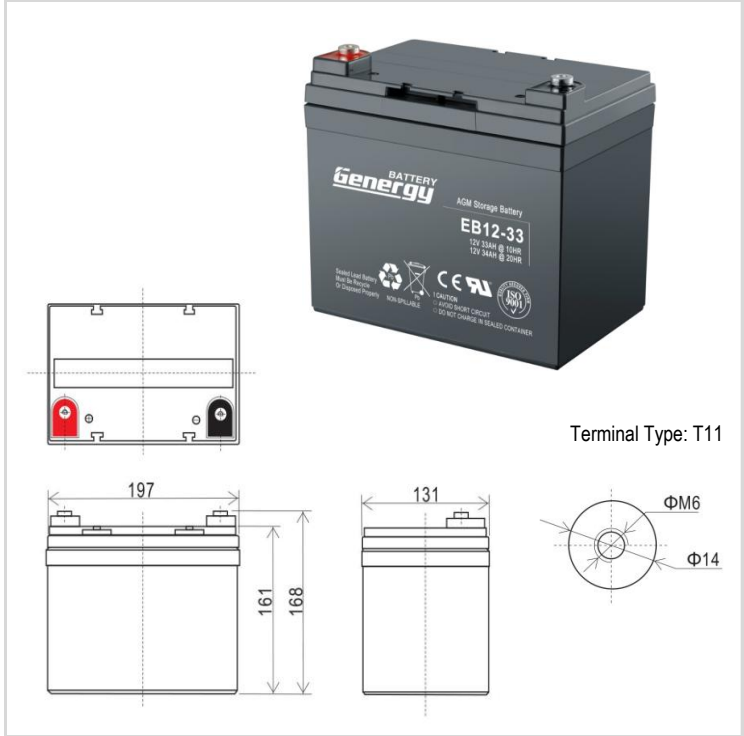
## Battery Features

- Increase durability and deep cycle ability for heavy demand applications
- 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)   | 12 years  |
| Nominal Capacity @ 20°C (68°F)   |   |
| 20 hour rate 1.72A to 1.75Vpc  | 34 Ah   |
| 10 hour rate 3.3A to 1.80Vpc   | 33 Ah   |
| Internal Resistance  |   |
| (Fully charged battery @ 20°C (68°F))  | 10mΩ  |
| Max. Discharge Current @ 20°C (68°F)   | 350 A (5S)  |
| Charge Methods: Constant voltage charge @ 20°C (68°F)  |   |
| Cycle Use  | 14.7 ~ 14.9V                                      |
| Max. Current   | 8.8 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   | Total Height |              |               |
| 197 mm   | 131 mm            | 161 mm   | 168 mm       | 10 kg        |               |
| 7.8 inch | 5.2 inch          | 6.3 inch | 6.6 inch     | 22.0 lbs     |               |

## Typical Applications

- UPS & EPS
- Telecommunications
- Power Utility
- Security Power Supply

## 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   | 80.79 | 61.67 | 53.28 | 44.88 | 37.99 | 34.04 | 31.74 | 29.45 | 27.53 | 25.79 | 24.58 | 13.32 | 9.48 | 7.87 | 6.44 | 3.44 | 1.74 |
| 1.65   | 76.72 | 58.56 | 50.87 | 43.17 | 36.97 | 33.14 | 30.96 | 28.77 | 26.97 | 25.35 | 24.24 | 13.07 | 9.30 | 7.71 | 6.29 | 3.42 | 1.74 |
| 1.70   | 73.55 | 56.15 | 48.86 | 41.57 | 35.78 | 32.04 | 29.95 | 27.85 | 26.13 | 24.60 | 23.57 | 12.62 | 9.08 | 7.53 | 6.14 | 3.39 | 1.74 |
| 1.75   | 70.16 | 53.55 | 46.68 | 39.80 | 34.43 | 30.83 | 28.88 | 26.92 | 25.35 | 23.95 | 23.07 | 12.28 | 8.89 | 7.36 | 6.01 | 3.36 | 1.72 |
| 1.80   | 66.54 | 50.79 | 44.38 | 37.97 | 33.07 | 29.60 | 27.75 | 25.91 | 24.45 | 23.17 | 22.41 | 11.83 | 8.67 | 7.18 | 5.86 | 3.30 | 1.70 |

## 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   | 140.31 | 107.11 | 94.26 | 81.41 | 70.97 | 63.75 | 59.22 | 54.69 | 50.84 | 47.44 | 44.80 | 24.63 | 17.92 | 14.87 | 12.25 | 6.86 | 3.62 |
| 1.65   | 135.33 | 103.31 | 91.11 | 78.90 | 69.10 | 62.07 | 57.70 | 53.34 | 49.67 | 46.44 | 43.97 | 24.13 | 17.76 | 14.71 | 12.08 | 6.80 | 3.62 |
| 1.70   | 130.13 | 99.33  | 87.72 | 76.11 | 66.89 | 60.10 | 55.96 | 51.83 | 48.38 | 45.38 | 43.14 | 23.55 | 17.43 | 14.45 | 11.90 | 6.66 | 3.57 |
| 1.75   | 124.47 | 95.02  | 84.05 | 73.08 | 64.52 | 57.96 | 54.05 | 50.14 | 46.92 | 44.15 | 42.13 | 22.80 | 16.93 | 14.10 | 11.69 | 6.61 | 3.51 |
| 1.80   | 118.36 | 90.35  | 80.09 | 69.83 | 61.97 | 55.65 | 51.97 | 48.29 | 45.30 | 42.76 | 40.97 | 21.99 | 16.49 | 13.74 | 11.42 | 6.55 | 3.47 |

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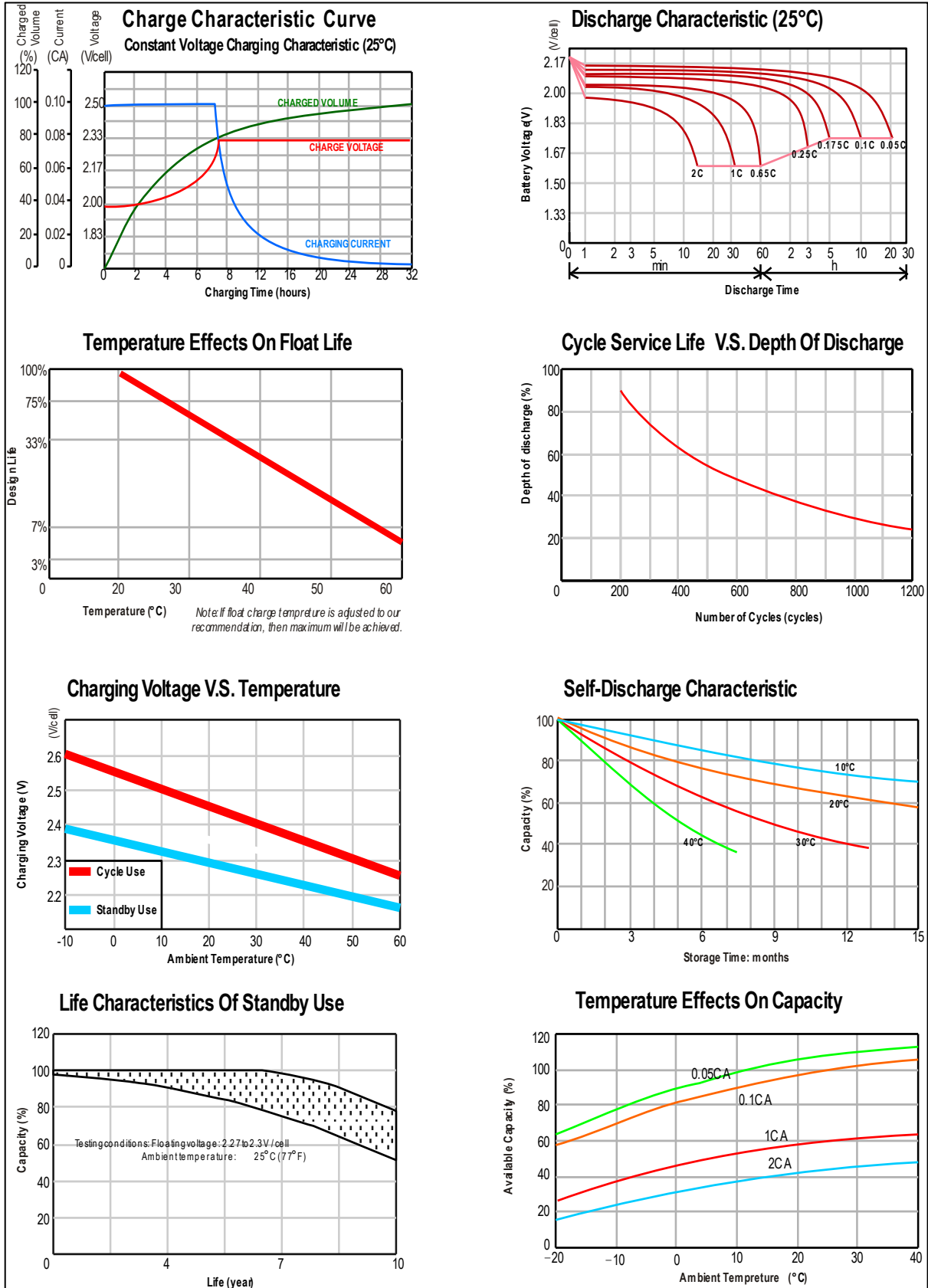
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Graphs



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