

# EB12-38

12V38Ah / 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.

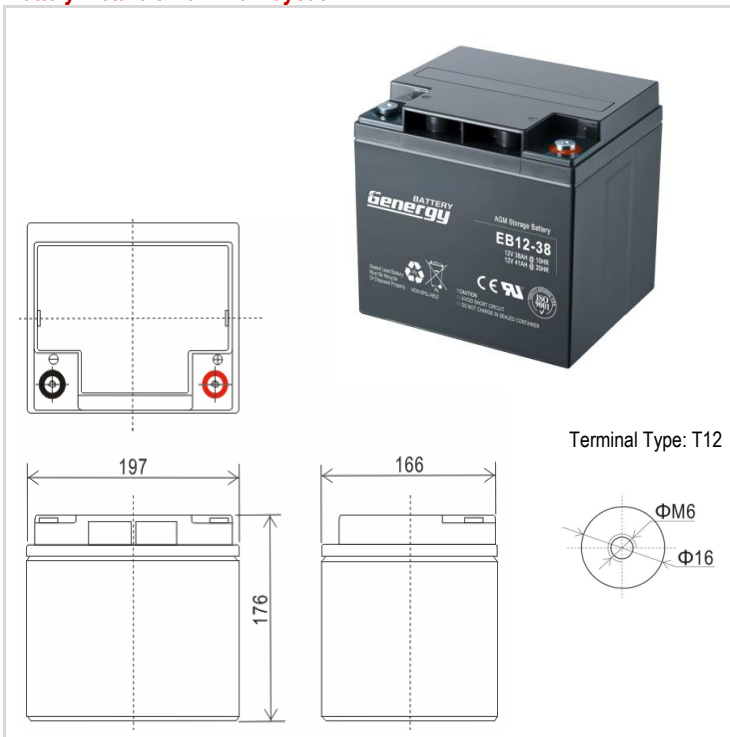
### Battery Features

- 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 2 A to 1.75Vpc  | 40 Ah   |
| 10 hour rate 3.83 A to 1.80Vpc   | 38.3 Ah   |
| Internal Resistance  |   |
| (Fully charged battery @ 20°C (68°F))  | 10mΩ  |
| Max. Discharge Current @ 20°C (68°F)   | 380 A (5S)  |
| Charge Methods: Constant voltage charge @ 20°C (68°F)  |   |
| Cycle Use  | 14.7 ~ 14.9V                                      |
| Max. Current   | 9.5 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

|  | Dimension (± 2mm) |          |          |              | Weight (± 2%) |
|--|-------------------|----------|----------|--------------|---------------|
|  | Length            | Width    | Height   | Total Height |               |
|  | 197 mm            | 166 mm   | 176 mm   | 176 mm       | 12.3 kg       |
|  | 7.8 inch          | 6.5 inch | 6.9 inch | 6.9 inch     | 27.0 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   | 94.16 | 71.88 | 62.09 | 52.31 | 44.28 | 39.84 | 37.15 | 34.46 | 32.22 | 30.28 | 28.79 | 15.61 | 11.11 | 9.22 | 7.54 | 4.03 | 2.04 |
| 1.65   | 89.41 | 68.25 | 59.28 | 50.31 | 43.09 | 38.78 | 36.23 | 33.67 | 31.56 | 29.76 | 28.40 | 15.31 | 10.89 | 9.03 | 7.37 | 4.01 | 2.04 |
| 1.70   | 85.72 | 65.44 | 56.94 | 48.45 | 41.70 | 37.50 | 35.04 | 32.59 | 30.58 | 28.88 | 27.62 | 14.79 | 10.64 | 8.82 | 7.19 | 3.97 | 2.04 |
| 1.75   | 81.76 | 62.42 | 54.40 | 46.39 | 40.12 | 36.08 | 33.79 | 31.50 | 29.66 | 28.12 | 27.03 | 14.38 | 10.41 | 8.63 | 7.04 | 3.93 | 2.02 |
| 1.80   | 77.54 | 59.19 | 51.73 | 44.26 | 38.54 | 34.63 | 32.48 | 30.32 | 28.61 | 27.21 | 26.25 | 13.87 | 10.16 | 8.41 | 6.87 | 3.83 | 2.00 |

### 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   | 163.53 | 124.83 | 109.86 | 94.88 | 82.71 | 74.61 | 69.30 | 64.00 | 59.50 | 55.70 | 52.49 | 28.86 | 21.00 | 17.42 | 14.35 | 8.04 | 4.24 |
| 1.65   | 157.73 | 120.40 | 106.18 | 91.96 | 80.53 | 72.63 | 67.53 | 62.43 | 58.12 | 54.52 | 51.52 | 28.27 | 20.81 | 17.23 | 14.16 | 7.96 | 4.24 |
| 1.70   | 151.66 | 115.77 | 102.23 | 88.70 | 77.96 | 70.33 | 65.49 | 60.65 | 56.61 | 53.28 | 50.54 | 27.59 | 20.42 | 16.93 | 13.94 | 7.81 | 4.18 |
| 1.75   | 145.07 | 110.74 | 97.96  | 85.17 | 75.19 | 67.82 | 63.25 | 58.68 | 54.91 | 51.84 | 49.37 | 26.71 | 19.84 | 16.52 | 13.69 | 7.75 | 4.11 |
| 1.80   | 137.94 | 105.30 | 93.34  | 81.38 | 72.23 | 65.12 | 60.82 | 56.51 | 53.01 | 50.20 | 48.00 | 25.77 | 19.32 | 16.10 | 13.38 | 7.67 | 4.07 |

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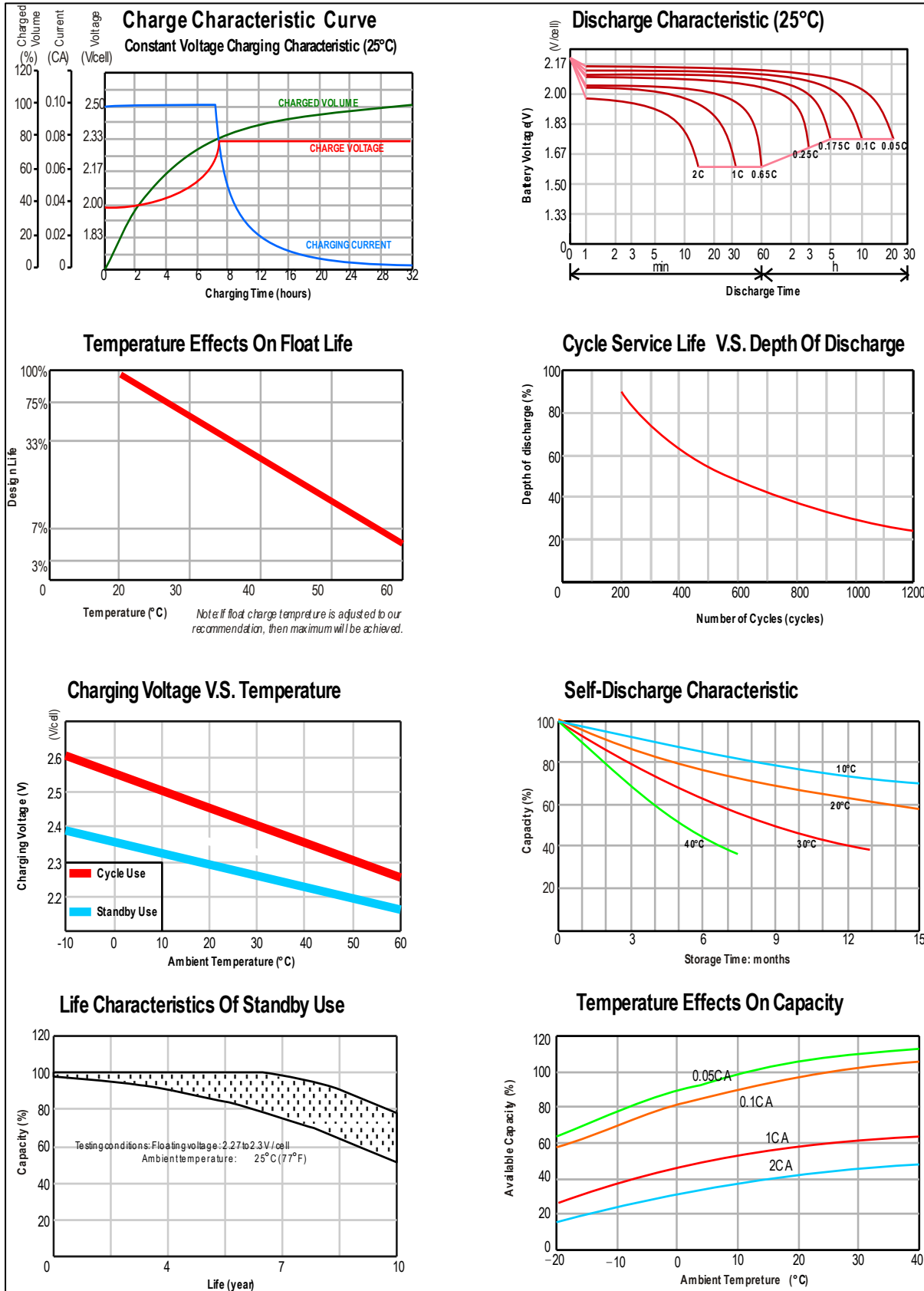
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Graphs



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