

EB12-250

12V250Ah / 10hr rate



Introduction

Genergy 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 13.18A to 1.75Vpc 263Ah

10 hour rate 25.04A to 1.80Vpc 250 Ah

Internal Resistance

(Fully charged battery @ 20°C (68°F)) 3mΩ

Max. Discharge Current @ 20°C (68°F) 2500 A (5S)

Charge Methods: Constant voltage charge @ 20°C (68°F)

Cycle Use 14.7 ~ 14.9V

Max. Current 66 A

Standby Use 13.6 - 13.8V

Operating Temperature Range -30 ~ 50°C

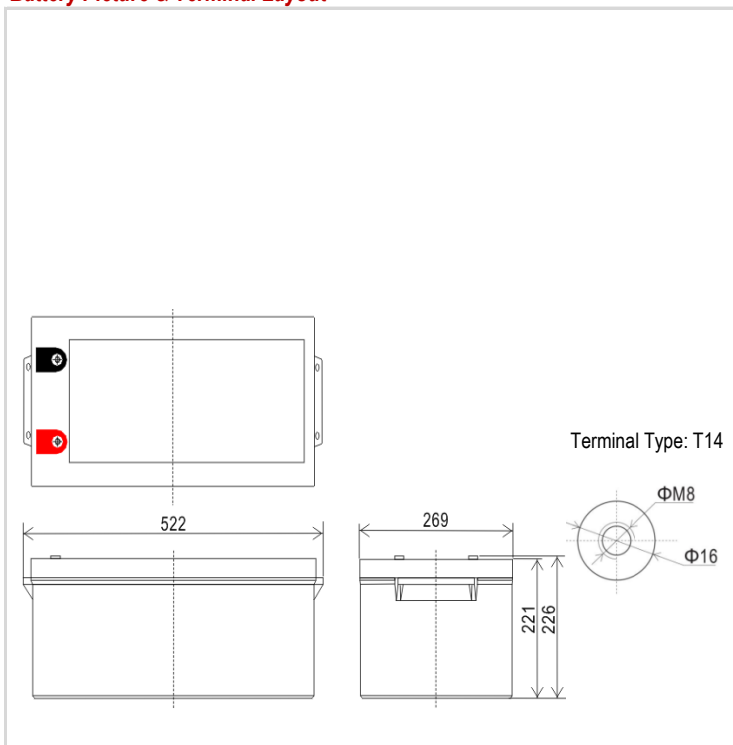
Notes: battery voltage must be adjusted according to temperature.

Please refer to our recommendation.

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 | |
| 522 mm | 269 mm | 221 mm | 226 mm | 70.5 kg |
| 20.6 inch | 10.6 inch | 8.7 inch | 8.9 inch | 155.4 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 | 505.99 | 386.25 | 333.67 | 281.10 | 237.93 | 240.72 | 224.47 | 209.61 | 195.99 | 184.20 | 188.19 | 102.03 | 72.60 | 60.29 | 49.29 | 26.34 | 13.30 |
| 1.65 | 480.47 | 366.77 | 318.56 | 270.35 | 231.55 | 234.35 | 218.90 | 204.81 | 192.00 | 181.01 | 185.63 | 100.05 | 71.20 | 59.03 | 48.16 | 26.21 | 13.30 |
| 1.70 | 460.63 | 351.63 | 305.99 | 260.35 | 224.11 | 226.59 | 211.75 | 198.22 | 186.02 | 175.64 | 180.52 | 96.68 | 69.56 | 57.64 | 47.02 | 25.96 | 13.30 |
| 1.75 | 439.37 | 335.40 | 292.33 | 249.27 | 215.60 | 218.03 | 204.19 | 191.62 | 180.43 | 171.07 | 176.69 | 94.00 | 68.05 | 56.37 | 46.01 | 25.71 | 13.18 |
| 1.80 | 416.69 | 318.09 | 277.96 | 237.83 | 207.10 | 209.27 | 196.24 | 184.43 | 174.05 | 165.50 | 171.58 | 90.62 | 66.40 | 54.98 | 44.87 | 25.04 | 13.05 |

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 | 878.7 | 670.80 | 590.33 | 509.87 | 444.45 | 450.81 | 418.77 | 389.31 | 361.92 | 338.79 | 343.09 | 188.60 | 137.25 | 113.88 | 93.79 | 52.55 | 27.72 |
| 1.65 | 847.6 | 646.99 | 570.57 | 494.14 | 432.76 | 438.87 | 408.04 | 379.72 | 353.54 | 331.62 | 336.71 | 184.78 | 135.99 | 112.62 | 92.52 | 52.05 | 27.72 |
| 1.70 | 814.96 | 622.11 | 549.37 | 476.64 | 418.95 | 424.94 | 395.71 | 368.92 | 344.36 | 324.06 | 330.32 | 180.32 | 133.46 | 110.66 | 91.13 | 51.03 | 27.35 |
| 1.75 | 779.53 | 595.06 | 526.38 | 457.70 | 404.06 | 409.81 | 382.19 | 356.93 | 333.99 | 315.31 | 322.65 | 174.59 | 129.67 | 107.94 | 89.49 | 50.65 | 26.85 |
| 1.80 | 741.26 | 565.85 | 501.59 | 437.33 | 388.12 | 393.50 | 367.48 | 343.75 | 322.43 | 305.36 | 313.70 | 168.41 | 126.25 | 105.23 | 87.47 | 50.15 | 26.61 |

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

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

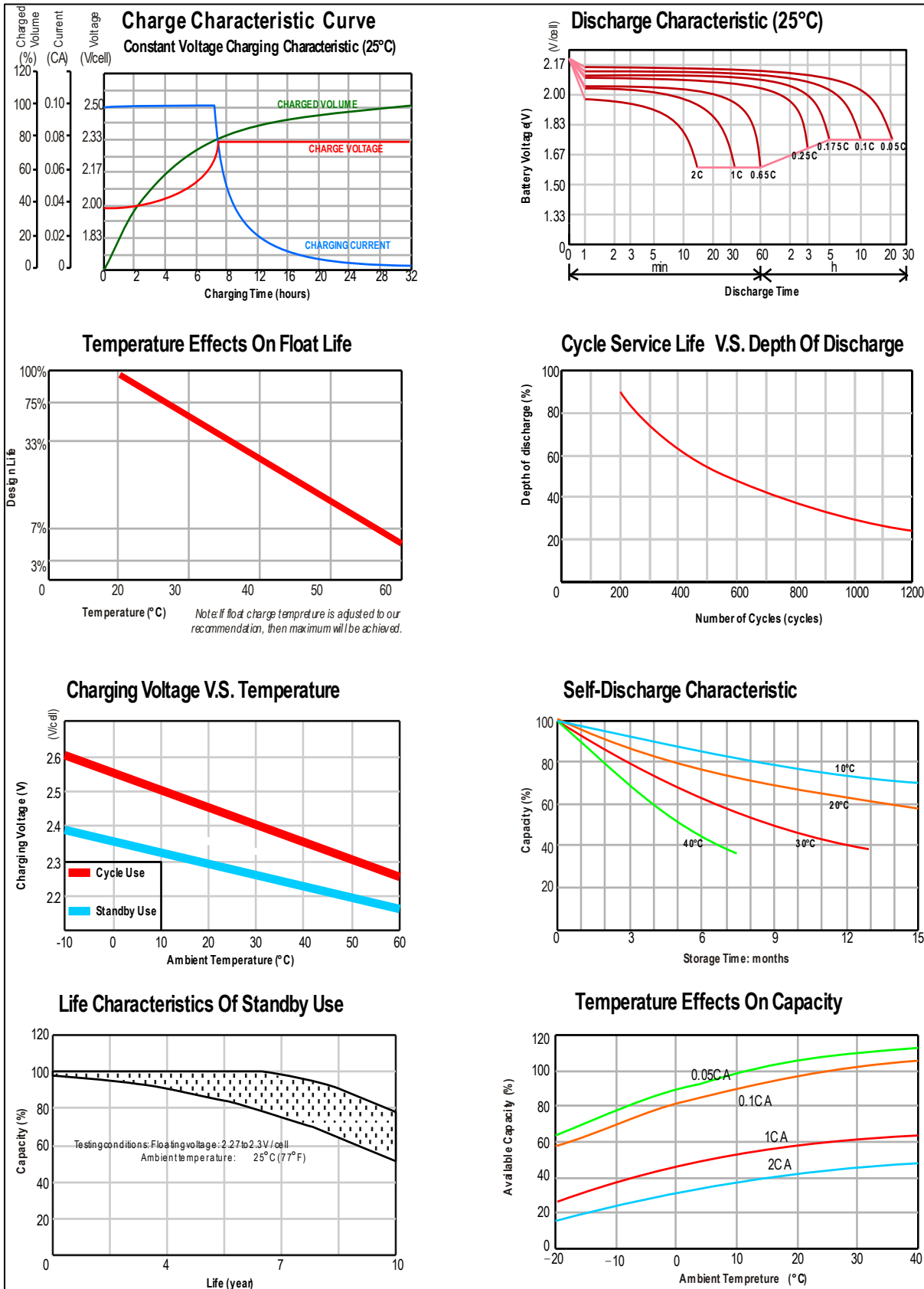
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Graphs



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