

GFM-H Series

GFM-800H 2V800Ah

GFM-H series batteries use AGM technology with single large capacity and thick plate structure design. It has longer floating life and high floating consistency. Its modular and horizontal structure design ensures convenient installation and maintenance, saving space effectively. It is suitable for applications with high floating consistency requirements and data center.

Benefits

- Very long life according to EUROBAT Classification
- High discharge performance
- 99%+ gas recombination efficiency
- Maximum charge efficiency
- Low self-discharge rate
- Horizontal installation method effectively prevent electrolyte stratification

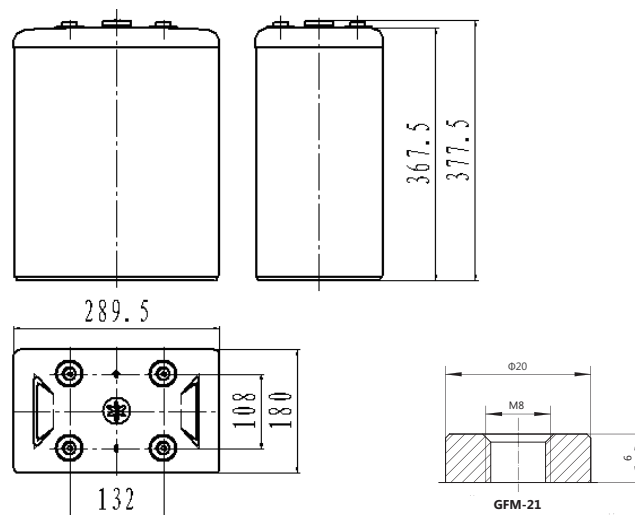
Applications

- Telecommunications
- Power system
- UPS
- Electrical Power plants and substation
- Data center

Standards

- IEC 60896-21/22
- DL/T 637-1997
- EUROBAT guide

Drawing



Specifications

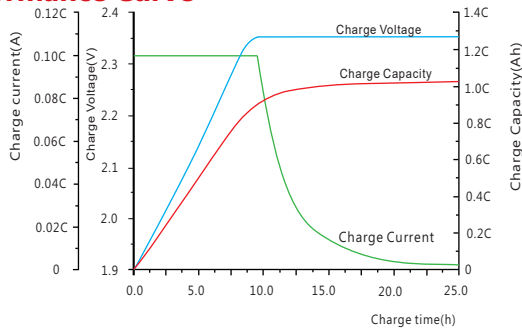
| | | | | |
|--------------------------------------|--|-------------------|-----------------------|------------------|
| Battery Model | GFM-800H | | | |
| Design Life (years, 25°C) | 18 | | | |
| Capacity (Ah, 25°C) | 10HR (80.0A, 1.80V) | 5HR (136A, 1.80V) | 3HR (200A, 1.80V) | 1HR(440A, 1.75V) |
| | 800 | 680 | 600 | 440 |
| Dimensions (mm) | Length | Width | Height | Total Height |
| | 289.5 | 180 | 367.5 | 377.5 |
| Approx. Weight (kg) | 43.2 | | | |
| Reference Internal Resistance (mΩ) | 0.36 ±15% (fully charged @ 25°C, Testing device: HIOKIBT3562) | | | |
| Maximum Discharge Current (A/5 Sec.) | 2800 | | | |
| Self-Discharge (25°C) | ≤1.5% per month | | | |
| Charge Voltage (V/cell, 25°C) | Cycle use | | Float use | |
| | 2.35 (-3.5mV/°C/cell), max charge current: 120A | | 2.25 (-3.5mV/°C/cell) | |
| Short Circuit Current (A) | 7000 | | | |

Discharge Data

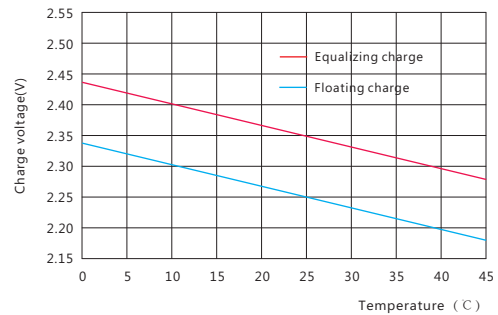
| Constant Current Discharge Data (25°C, A) | | | | | | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|
| End Voltage (V/cell) | min | | | h | | | | | | | | | | |
| | 30 | 40 | 50 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 |
| 1.60 | 736 | 608 | 515 | 494 | 301 | 227 | 181 | 152 | 130 | 115 | 104 | 94 | 88 | 72 |
| 1.65 | 712 | 589 | 502 | 483 | 294 | 221 | 176 | 149 | 126 | 112 | 101 | 91 | 85 | 70 |
| 1.70 | 656 | 560 | 483 | 472 | 285 | 214 | 171 | 144 | 123 | 109 | 98 | 90 | 83 | 69 |
| 1.75 | 600 | 528 | 456 | 440 | 275 | 206 | 165 | 141 | 120 | 106 | 94 | 86 | 82 | 67 |
| 1.80 | 544 | 490 | 435 | 400 | 256 | 200 | 154 | 136 | 115 | 102 | 93 | 85 | 80 | 66 |

| Constant Power Discharge Data (25°C, W/cell) | | | | | | | | | | | | | | |
|--|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| End Voltage (V/cell) | min | | | h | | | | | | | | | | |
| | 30 | 40 | 50 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 |
| 1.60 | 1315 | 1091 | 934 | 892 | 557 | 419 | 338 | 278 | 245 | 219 | 198 | 184 | 166 | 142 |
| 1.65 | 1283 | 1069 | 920 | 880 | 547 | 413 | 333 | 275 | 242 | 216 | 195 | 181 | 165 | 141 |
| 1.70 | 1205 | 1024 | 896 | 872 | 534 | 403 | 325 | 270 | 240 | 211 | 192 | 178 | 163 | 138 |
| 1.75 | 1123 | 1000 | 864 | 826 | 522 | 390 | 314 | 262 | 232 | 208 | 187 | 173 | 160 | 136 |
| 1.80 | 1032 | 909 | 819 | 766 | 494 | 371 | 298 | 253 | 224 | 200 | 184 | 170 | 157 | 134 |

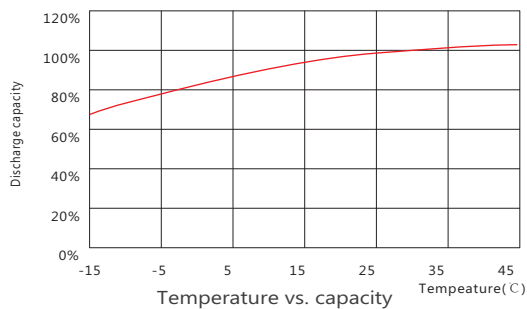
Performance Curve



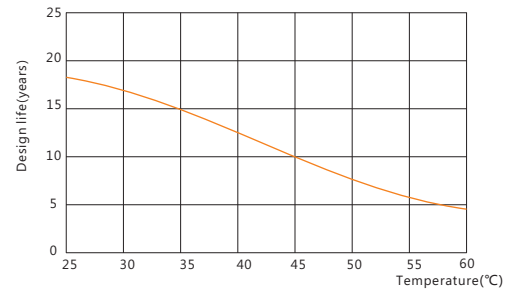
Charge capacity vs. charge time



Charge voltage vs. temperature



Temperature vs. capacity



Design life vs. temperature

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