

# GFM-C Series

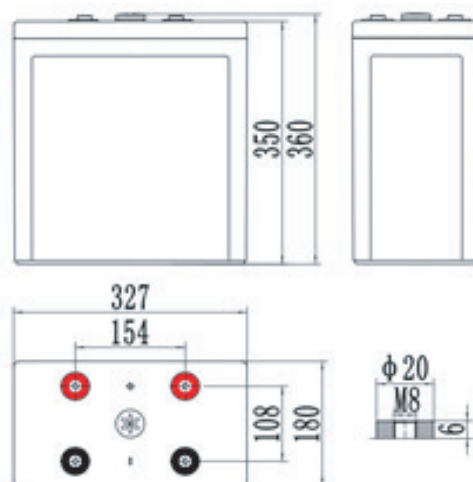
## GFM-1000C 2V1000Ah

GFM-C series VRLA battery uses latest AGM technology, high purity raw materials and many patented technologies that ensure its long floating and cycle life, it is applicable to less frequency of power failure, and shallow discharge of depth site. It is mainly used for indoor telecommunication base station.

### Benefits

- Long life according to EUROBAT Classification
- High discharge performance
- 99%+ gas recombination efficiency
- Maximum charge efficiency
- Low self-discharge rate
- Horizontal installation

### Drawing



### Applications

- Telecommunications
- Power system
- UPS
- Emergency power

### Standards

- IEC 60896-21/22
- JIS C8704-1/2
- EUROBAT guide

### Specifications

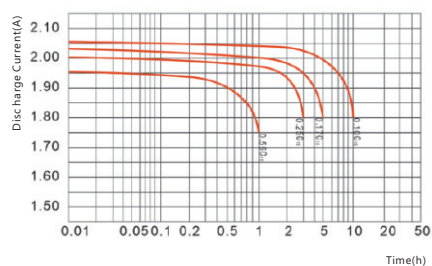
|                                    |                                                                |                   |                       |                   |
|------------------------------------|----------------------------------------------------------------|-------------------|-----------------------|-------------------|
| Battery Model                      | GFM-1000C                                                      |                   |                       |                   |
| Design Life (years, 25°C)          | 15                                                             |                   |                       |                   |
| Capacity (Ah, 25°C)                | 10HR (100A, 1.80V)                                             | 5HR (170A, 1.80V) | 3HR (250A, 1.80V)     | 1HR (550A, 1.75V) |
|                                    | 1000                                                           | 850               | 750                   | 550               |
| Dimensions (mm)                    | Length                                                         | Width             | Height                | Total Height      |
|                                    | 327                                                            | 180               | 350                   | 360               |
| Approx. Weight (kg)                | 52.6                                                           |                   |                       |                   |
| Reference Internal Resistance (mΩ) | 0.25 ±15% ( fully charged @ 25°C, Testing device: HIOKIBT3562) |                   |                       |                   |
| Self-Discharge (25°C)              | ≤ 2% per months                                                |                   |                       |                   |
| Charge Voltage (V/cell, 25°C)      | Cycle use                                                      |                   | Float use             |                   |
|                                    | 2.35 (-3.5mV/°C/cell), max charge current: 150A                |                   | 2.25 (-3.5mV/°C/cell) |                   |
| Short Circuit Current (A)          | 8000(For reference only)                                       |                   |                       |                   |

## Discharge Data

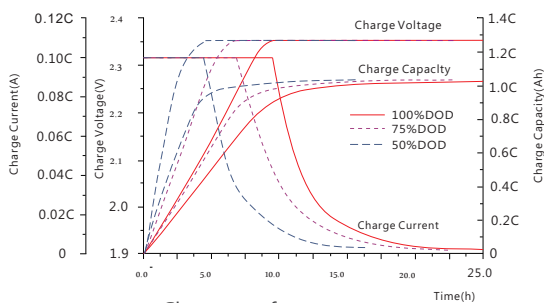
| Constant Current Discharge Data (25°C, A) |     |     |     |     |     |     |     |     |     |     |
|-------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| End Voltage (V/cell)                      | h   |     |     |     |     |     |     |     |     |     |
|                                           | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |
| 1.60                                      | 585 | 369 | 278 | 220 | 185 | 160 | 140 | 126 | 116 | 107 |
| 1.65                                      | 570 | 353 | 269 | 215 | 180 | 155 | 138 | 123 | 113 | 105 |
| 1.70                                      | 560 | 340 | 256 | 201 | 174 | 150 | 134 | 120 | 110 | 103 |
| 1.75                                      | 550 | 330 | 251 | 196 | 172 | 147 | 132 | 117 | 107 | 101 |
| 1.80                                      | 512 | 320 | 250 | 190 | 170 | 140 | 128 | 115 | 105 | 100 |

| Constant Power Discharge Data (25°C, W/cell) |      |     |     |     |     |     |     |     |     |     |
|----------------------------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| End Voltage (V/cell)                         | h    |     |     |     |     |     |     |     |     |     |
|                                              | 1    | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |
| 1.60                                         | 1025 | 645 | 500 | 405 | 347 | 304 | 270 | 242 | 223 | 205 |
| 1.65                                         | 1020 | 631 | 485 | 392 | 335 | 292 | 260 | 235 | 215 | 200 |
| 1.70                                         | 1005 | 613 | 465 | 374 | 324 | 278 | 247 | 225 | 207 | 192 |
| 1.75                                         | 975  | 598 | 452 | 368 | 317 | 272 | 240 | 220 | 202 | 188 |
| 1.80                                         | 940  | 585 | 448 | 357 | 309 | 265 | 232 | 215 | 197 | 184 |

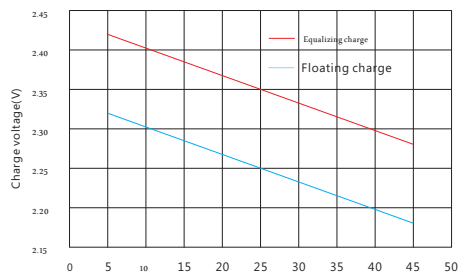
## Performance Curve



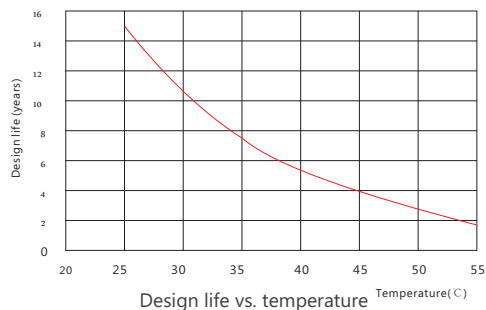
Discharge performance



Charge performance



Temperature vs. charge voltage



Design life vs. temperature

### Sacred Sun Power Sources Co., Ltd.

Add: No.1 Shengyang Road, Qufu 273100 PRC  
 Tel: +86-537-4422313 Fax: +86-537-4411980  
 Email: sales@sacredsunsun.cn

### Sacred Sun Hong Kong Co., Limited

Add: RM 19C Lockhart CTR 301-307 Lockhart RD Wan Chai, Hong Kong  
 Email: admin.hk@sacredsunsun.hk

### Sacred Sun Asia Pacific Pte Ltd.

Add: 1 Ubi View, #04-12, Focus One, Singapore 408555  
 Email: admin.sg@sacredsunsun.sg

### Sacred Sun Europe SARL

Add: ZAE Fontaine, 33210 Fargues, France  
 Email: admin.eu@sacredsunsun.eu

### Sacred Sun MEA FZE

Add: No. 311 office, Building LOB 14, JAFZA, Dubai, UAE  
 Email: admin.ae@sacredsunsun.ae

