

# GFM-C Series

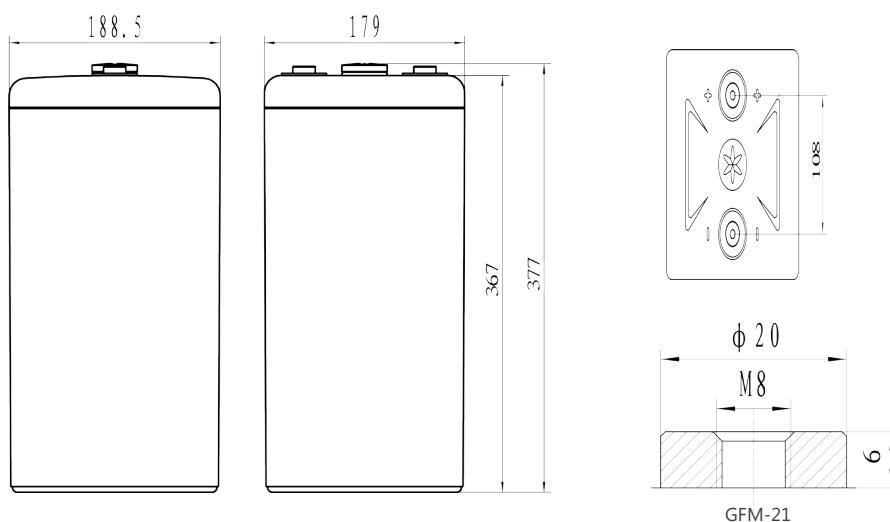
## GFM-500C 2V500Ah

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

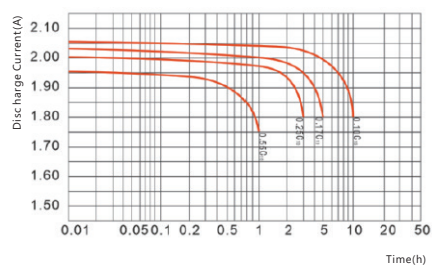
|                                    |                                                                |                  |                       |                  |
|------------------------------------|----------------------------------------------------------------|------------------|-----------------------|------------------|
| Battery Model                      | GFM-500C                                                       |                  |                       |                  |
| Design Life (years, 25°C)          | 15                                                             |                  |                       |                  |
| Capacity (Ah, 25°C)                | 10HR (50A, 1.80V)                                              | 5HR (85A, 1.80V) | 3HR (150A, 1.80V)     | 1HR 330A, 1.75V) |
|                                    | 500                                                            | 425              | 375                   | 275              |
| Dimensions (mm)                    | Length                                                         | Width            | Height                | Total Height     |
|                                    | 188.5                                                          | 179              | 367                   | 377              |
| Approx. Weight (kg)                | 28.4                                                           |                  |                       |                  |
| Reference Internal Resistance (mΩ) | 0.37 ±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: 75A                 |                  | 2.25 (-3.5mV/°C/cell) |                  |
| Short Circuit Current (A)          | 4800(For reference only)                                       |                  |                       |                  |

## Discharge Data

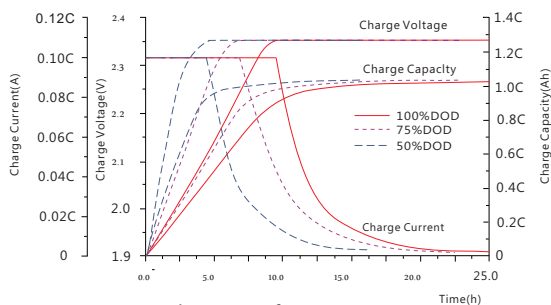
| Constant Current Discharge Data (25°C, A) |     |     |     |     |     |     |     |      |      |      |      |
|-------------------------------------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| End Voltage (V/cell)                      | min |     |     | h   |     |     |     |      |      |      |      |
|                                           | 30  | 40  | 50  | 1   | 2   | 3   | 4   | 5    | 6    | 8    | 10   |
| 1.60                                      | 480 | 440 | 375 | 340 | 196 | 145 | 118 | 99.0 | 84.0 | 68.0 | 55.0 |
| 1.65                                      | 445 | 400 | 350 | 320 | 188 | 140 | 114 | 95.0 | 81.0 | 66.0 | 54.0 |
| 1.70                                      | 410 | 365 | 330 | 300 | 180 | 135 | 110 | 91.0 | 78.0 | 64.0 | 52.8 |
| 1.75                                      | 375 | 335 | 300 | 275 | 170 | 130 | 105 | 88.0 | 76.0 | 62.0 | 51.5 |
| 1.80                                      | 340 | 305 | 275 | 250 | 160 | 125 | 100 | 85.0 | 74.0 | 60.0 | 50.0 |

| Constant Power Discharge Data (25°C, W/cell) |     |     |     |     |     |     |     |     |     |     |      |
|----------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| End Voltage (V/cell)                         | min |     |     | h   |     |     |     |     |     |     |      |
|                                              | 30  | 40  | 50  | 1   | 2   | 3   | 4   | 5   | 6   | 8   | 10   |
| 1.60                                         | 847 | 781 | 668 | 608 | 356 | 265 | 217 | 183 | 156 | 127 | 104  |
| 1.65                                         | 802 | 724 | 636 | 583 | 347 | 261 | 213 | 179 | 153 | 125 | 103  |
| 1.70                                         | 753 | 674 | 611 | 558 | 339 | 256 | 210 | 174 | 150 | 123 | 102  |
| 1.75                                         | 702 | 630 | 566 | 520 | 325 | 250 | 203 | 171 | 148 | 121 | 101  |
| 1.80                                         | 645 | 581 | 525 | 479 | 309 | 243 | 195 | 166 | 145 | 118 | 98.5 |

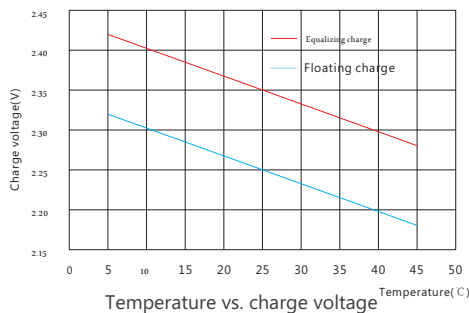
## Performance Curve



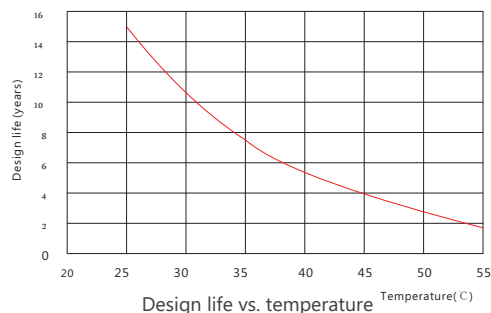
Discharge performance



Charge performance



Temperature vs. charge voltage



Design life vs. temperature

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