

stored energy solutions for a demanding world



## Model: GFM600

## GFM Series

The GFM range of gel technology batteries offers outstanding performance including a 15+ years design life. The GFM series is designed by using the polymer gel electrolyte and compliant with the latest IEC60896-21/22 standard. This GFM series also offers 100% capacity out of the box and is capable of handling deep discharges for complete peace of mind. The multiple installations to both horizontally and vertically are easily accessible due to the flexible connectors design.



### Specifications

| Battery Model              | GFM600                    |                    |                               |                    |
|----------------------------|---------------------------|--------------------|-------------------------------|--------------------|
| Nominal Voltage            | 2V                        |                    |                               |                    |
| Capacity (25°C)            | 10HR (60A, 1. 80V)        | 3HR (150A, 1. 80V) |                               | 1HR (330A, 1. 75V) |
|                            | 600AH                     | 450AH              |                               | 330AH              |
| Dimensions                 | Length                    | Width              | Height                        | Total Height       |
|                            | 223mm                     | 184. 5mm           | 360. 5mm                      | 372mm              |
| Approx. Weight             | 37. 5kg                   |                    |                               |                    |
| Internal Resistance        | 0. 28mΩ                   |                    |                               |                    |
| Max Charge Current Allowed | 150A                      |                    |                               |                    |
| Charge Voltage (25°C)      | Cycle use                 |                    | Float use                     |                    |
|                            | 2. 35V/cell               |                    | 2. 25V/cell                   |                    |
| Temperature Ranges         | Operation (maximum) :     |                    | -40°C to 55°C(-40°F to 131°F) |                    |
|                            | Operation (recommended) : |                    | 15°C to 25°C(59°F to 77°F)    |                    |
|                            | Storage:                  |                    | -20°C to 40°C(-4°F to 104°F)  |                    |
| Terminal                   | M8 Female                 |                    |                               |                    |
| Terminal Hardware Torque   | 15 ± 1. 0Nm               |                    |                               |                    |
| Container Material         | ABS (V0 optional)         |                    |                               |                    |

### Constant Current Discharge Characteristics Units: Amperes (25°C, 77°F)

| End voltage per cell | 5min    | 15min  | 30min  | 1hr    | 2hr    | 3hr    | 5hr    | 6hr    | 8hr   | 10hr  | 24hr  | 48hr  | 100hr |
|----------------------|---------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 1. 60V               | 1042. 8 | 877. 2 | 626. 3 | 396. 0 | 233. 8 | 171. 6 | 116. 4 | 100. 4 | 80. 1 | 66. 5 | 29. 9 | 15. 6 | 8. 5  |
| 1. 65V               | 993. 6  | 837. 6 | 599. 9 | 375. 6 | 228. 4 | 167. 4 | 113. 5 | 99. 1  | 79. 0 | 65. 8 | 29. 8 | 15. 5 | 8. 3  |
| 1. 70V               | 933. 6  | 800. 4 | 551. 9 | 358. 8 | 220. 0 | 162. 5 | 112. 5 | 97. 7  | 77. 5 | 64. 8 | 29. 7 | 15. 4 | 8. 2  |
| 1. 75V               | 871. 2  | 738. 0 | 512. 9 | 342. 0 | 212. 3 | 157. 5 | 109. 4 | 96. 2  | 76. 6 | 63. 8 | 29. 3 | 15. 2 | 8. 0  |
| 1. 80V               | 799. 4  | 659. 9 | 480. 0 | 320. 4 | 203. 2 | 152. 7 | 106. 9 | 93. 8  | 75. 1 | 62. 4 | 28. 9 | 14. 9 | 7. 7  |
| 1. 85V               | 707. 8  | 585. 2 | 428. 0 | 289. 2 | 183. 3 | 144. 9 | 103. 3 | 90. 8  | 73. 0 | 60. 7 | 27. 9 | 14. 6 | 7. 5  |
| 1. 90V               | 601. 2  | 489. 6 | 367. 2 | 256. 8 | 171. 9 | 135. 9 | 99. 4  | 87. 4  | 70. 2 | 58. 7 | 27. 3 | 14. 2 | 7. 1  |

### Discharge Data with Constant Power Units: Watts per cell (25°C, 77°F)

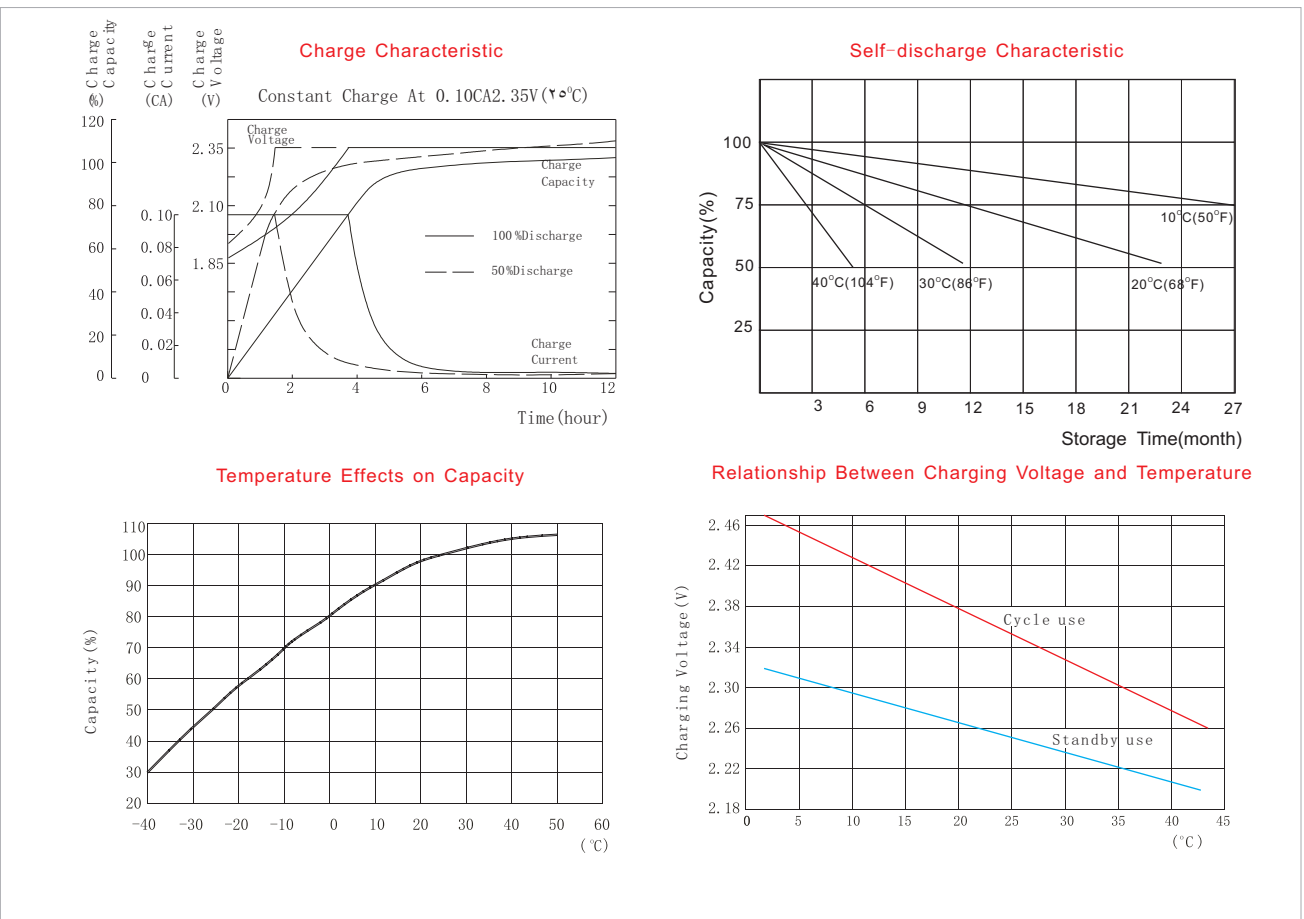
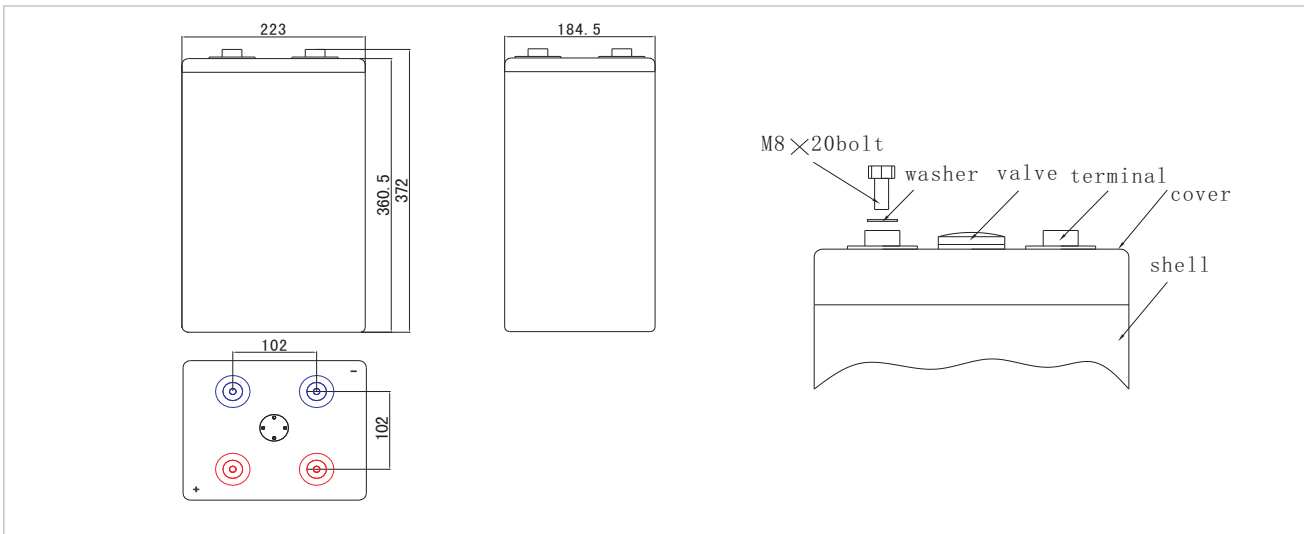
| End voltage per cell | 5min    | 15min   | 30min   | 1hr    | 2hr    | 3hr    | 4hr    | 5hr    | 6hr    | 8hr    | 10hr   | 24hr  |
|----------------------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 1. 60V               | 1706. 0 | 1428. 8 | 1137. 7 | 804. 5 | 519. 0 | 384. 5 | 306. 6 | 254. 0 | 216. 9 | 169. 5 | 138. 4 | 62. 4 |
| 1. 65V               | 1622. 6 | 1371. 2 | 1076. 1 | 743. 3 | 476. 2 | 360. 8 | 290. 8 | 245. 1 | 210. 0 | 163. 3 | 135. 1 | 61. 2 |
| 1. 70V               | 1560. 0 | 1322. 5 | 1049. 3 | 707. 8 | 462. 4 | 348. 0 | 281. 0 | 239. 6 | 205. 8 | 159. 7 | 131. 1 | 60. 0 |
| 1. 75V               | 1511. 3 | 1272. 8 | 1013. 5 | 680. 2 | 446. 0 | 335. 2 | 275. 1 | 233. 6 | 201. 1 | 153. 8 | 129. 1 | 59. 4 |
| 1. 80V               | 1469. 6 | 1213. 2 | 977. 7  | 664. 5 | 437. 7 | 323. 4 | 266. 2 | 227. 1 | 195. 2 | 149. 8 | 127. 2 | 58. 6 |
| 1. 85V               | 1336. 4 | 1104. 9 | 869. 4  | 604. 3 | 402. 2 | 306. 2 | 255. 9 | 216. 5 | 184. 8 | 144. 9 | 122. 2 | 56. 2 |
| 1. 90V               | 1179. 4 | 958. 8  | 733. 3  | 520. 5 | 349. 0 | 283. 9 | 238. 3 | 202. 3 | 172. 7 | 135. 6 | 113. 4 | 52. 6 |

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**TYSONIC BATTERY INC.**

1032 East Main Street . Alhambra, CA 91801 USA  
 Toll Free: 877-897-6648 . Tel: (626) 289-5962 . Fax: (626) 576-2503  
<http://www.tysonicbattery.com> . Email: [info@tysonicbattery.com](mailto:info@tysonicbattery.com)

