



FUJIAN YAHENG POWER TECHNOLOGY GROUP CO.,LTD

GEL GFM800D 2V800AH

GFM800D is a deep cycle purpose GEL battery . with specially designed for frequent cyclic discharge usage. By using strong grid and specific paste plate, the battery offers 50% more cyclic life than the standby series. It is applicable for power tools, solar & wind energy, telecom system, etc..



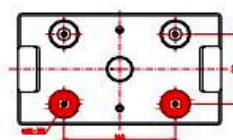
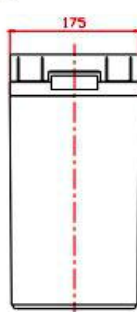
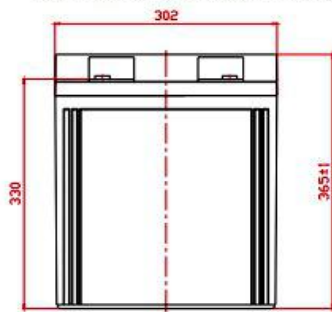
Specification

| | |
|------------------------------------|--|
| Cells Per Unit | 1 |
| Voltage Per Unit | 2V |
| Capacity | 800AH@10hr-rate to 1.75V per cell @ 25°C |
| Weight | Approx. 50.0kg (Tolerance±3%) |
| Max. Discharge Current | 4000A(5sec) |
| Internal Temperature Range | Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C |
| Normal Operating Temperature Range | 25±5°C |
| Float Charging Voltage | 2.27 to 2.3 VDC/unit Average at 25°C |
| Recommended Maximum Charging | 240.0A |
| Equalization and Cycle service | 2.4 to 2.47 VDC /unit Average at 25°C |
| Self Discharge | YAHENG Vale Regulated Lead Acid(VRLA) Can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using. |
| Terminal | Terminal F10 |
| Container Material | A.B.S. UL94-HB, Flammability resistance of UL94-V2 can be avail upon request |

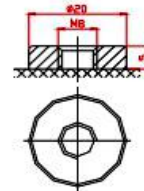
Dimensions

Unit: mm

Dimension: 302 (L) × 175 (W) × 365 (H)



Terminal F10



Constant Current Discharge Characteristics: A(25°C)

| F.V/Time | 15MIN | 30MIN | 1HR | 2HR | 3HR | 4HR | 5HR | 6HR | 8HR | 10HR |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.60V | 1086 | 801.0 | 515.5 | 306.4 | 228.2 | 181.9 | 153.2 | 128.7 | 103.9 | 86.82 |
| 1.65V | 1033 | 769.1 | 493.2 | 295.3 | 218.7 | 175.6 | 146.8 | 125.6 | 99.23 | 85.32 |
| 1.70V | 963.1 | 725.0 | 483.6 | 290.5 | 213.9 | 174.0 | 145.2 | 122.5 | 97.68 | 83.77 |
| 1.75V | 855.0 | 652.5 | 445.3 | 274.5 | 202.7 | 164.4 | 138.9 | 116.3 | 94.57 | 82.22 |
| 1.80V | 736.0 | 594.3 | 419.7 | 261.7 | 194.7 | 162.8 | 134.1 | 114.7 | 93.02 | 80.67 |
| 1.85V | 622.4 | 535.0 | 387.8 | 247.4 | 185.1 | 150.0 | 127.7 | 108.5 | 88.37 | 75.22 |

Constant Power Discharge Characteristics: W(25°C)

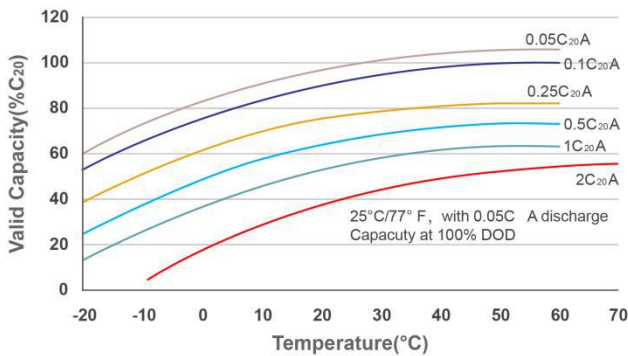
| F.V/Time | 15MIN | 30MIN | 1HR | 2HR | 3HR | 4HR | 5HR | 6HR | 8HR | 10HR |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.60V | 1902 | 1460 | 943.9 | 567.7 | 425.3 | 341.9 | 289.6 | 248.3 | 197.7 | 167.6 |
| 1.65V | 1852 | 1452 | 940.6 | 559.5 | 417.0 | 336.8 | 286.3 | 245.1 | 196.0 | 166.0 |
| 1.70V | 1749 | 1374 | 923.5 | 551.3 | 410.6 | 335.5 | 283.8 | 239.4 | 193.0 | 163.5 |
| 1.75V | 1558 | 1238 | 850.7 | 521.9 | 395.9 | 318.7 | 271.8 | 227.6 | 186.9 | 160.8 |
| 1.80V | 1349 | 1130 | 802.2 | 498.4 | 379.5 | 317.2 | 263.0 | 224.9 | 183.9 | 155.1 |
| 1.85V | 1150 | 1019 | 741.5 | 471.8 | 361.5 | 293.8 | 251.0 | 213.1 | 174.7 | 149.4 |

All mentioned values are average values.



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Temperature and Valid Capacity



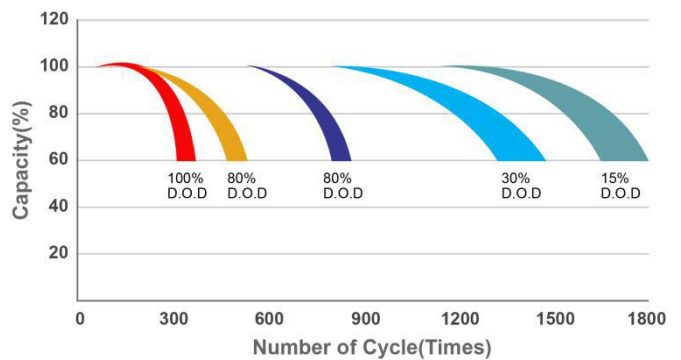
Discharge Characteristics at Various Rates @25°C/77



Charge characteristic curve for standby use



Life characteristics of cyclic use



Discharge Current VS. Discharge Voltage

| | | | |
|--------------------------------|----------|-----------------|--------|
| Final Discharge Voltage V/cell | 1.75V | 1.75V | 1.60V |
| Discharge Current (A) | A ≤ 0.2C | 0.2C ≤ A ≤ 1.0C | ≥ 1.0C |

Charge the batteries at least once every six months, if they are stored at 25°C

Charging Method:

| | |
|------------------|--|
| Constant Voltage | -0.2C*2h+2.4-2.45V/cell*24h, Max.Current 0.3CA |
| Constant Current | -0.2C*2h+0.1CA*12h |
| Fast | -0.2C*2h+0.3CA*4.0h |

Maintenance & Cautions

Float Service

- ✘ Every month, recommend inspection every battery voltage
 - ✘ Every three months, recommend equalization charge for one time.
- Equalization charge method:
- Discharge: 100% rate capacity discharge.
- Charge: Max. Current 0.3CA, constant voltage 2.4-2.45V/Cell charge 24h
- ✘ Effect of temperature on float charge voltage: -3mV/Cell.
 - ✘ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.

Contact us:

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