



# FUJIAN YAHENG POWER TECHNOLOGY GROUP CO.,LTD

## GEL GFM250D 2V250AH

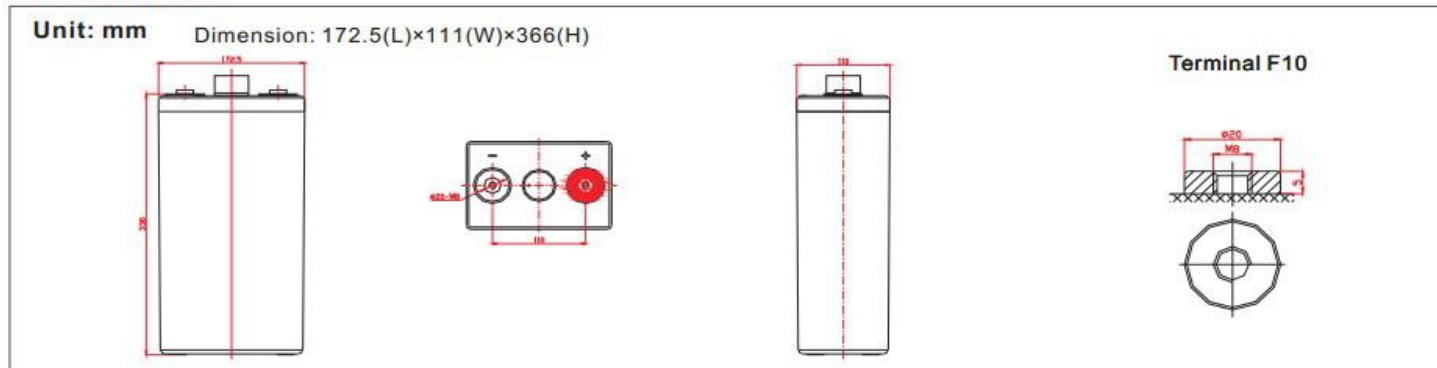
GFM250D is a deep cycle purpose GEL battery . with specially designed for frequent cyclic discharge usage. By using strong grid and specific paste plate, the battery offers 50% more cyclic life than the standby series. It is applicable for power tools, solar & wind energy, telecom system, etc..



### Specification

Cells Per Unit	1
Voltage Per Unit	2V
Capacity	250AH@10hr-rate to 1.75V per cell @ 25°C
Weight	Approx. 16.0kg (Tolerance±3%)
Max. Discharge Current	1250A(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	75.0A
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



### Constant Current Discharge Characteristics: A(25°C)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	339.4	250.3	161.1	95.76	71.32	56.86	47.88	40.21	32.46	27.13
1.65V	322.8	240.4	154.1	92.27	68.33	54.86	45.89	39.24	31.01	26.66
1.70V	301.0	226.6	151.1	90.77	66.83	54.36	45.39	38.28	30.52	26.18
1.75V	267.2	203.9	139.2	85.79	63.34	51.37	43.39	36.34	29.55	25.69
1.80V	230.0	185.7	131.2	81.80	60.85	50.87	41.90	35.85	29.07	25.21
1.85V	194.5	167.2	121.2	77.31	57.86	46.88	39.90	33.92	27.62	23.51

### Constant Power Discharge Characteristics: W(25°C)

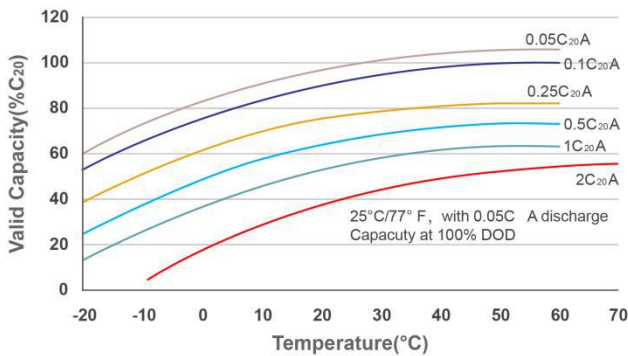
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	594.2	456.2	295.0	177.4	132.9	106.8	90.49	77.59	61.77	52.38
1.65V	578.7	453.8	294.0	174.8	130.3	105.3	89.46	76.60	61.25	51.89
1.70V	546.6	429.5	288.6	172.3	128.3	104.8	88.67	74.82	60.31	51.08
1.75V	486.9	387.0	265.8	163.1	123.7	99.59	84.95	71.13	58.41	50.27
1.80V	421.5	353.1	250.7	155.7	118.6	99.13	82.19	70.29	57.47	48.47
1.85V	359.4	318.4	231.7	147.4	113.0	91.82	78.44	66.59	54.61	46.67

All mentioned values are average values.



# FUJIAN YAHENG POWER TECHNOLOGY GROUP CO.,LTD

## Temperature and Valid Capacity



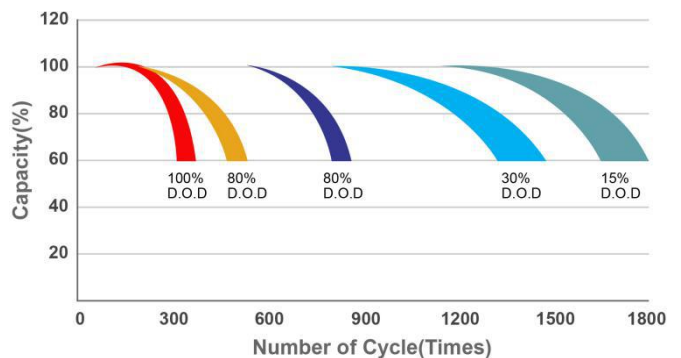
## Discharge Characteristics at Various Rates @25°C/77



## 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:

Fujian Yaheng Power Technology Group Co.,Ltd

Add: Yaheng Industrial Park, Jianyang District, Nanping City, Fujian Province, China

Website: [www.yahengpower.com](http://www.yahengpower.com)

Email: [liwendu@yahengpower.com](mailto:liwendu@yahengpower.com)

Tel: +86-599-5837578 Fax: +86-599-5823986