



# FUJIAN YAHENG POWER TECHNOLOGY GROUP CO.,LTD

## GEL GFM1200D 2V1200AH

GFM1200D 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..

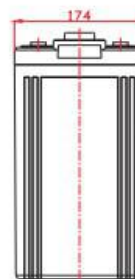
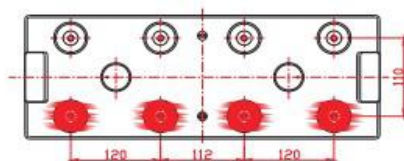
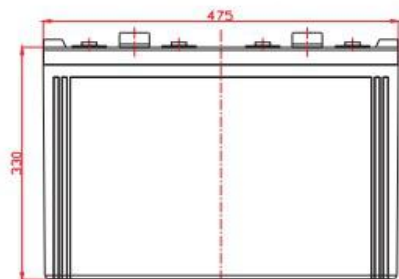


### Specification

Cells Per Unit	1
Voltage Per Unit	2V
Capacity	1200AH@10hr-rate to 1.75V per cell @ 25°C
Weight	Approx. 74.0kg (Tolerance±3%)
Max. Discharge Current	6000A(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	360.0A
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 at25°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: 475(L)×175(W)×368(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	1629	1202	773.3	459.6	342.3	272.9	229.8	193.0	155.8	130.2
1.65V	1549	1154	739.7	442.9	328.0	263.3	220.2	188.4	148.8	128.0
1.70V	1445	1088	725.4	435.7	320.8	260.9	217.9	183.7	146.5	125.7
1.75V	1283	978.7	667.9	411.8	304.0	246.6	208.3	174.4	141.9	123.3
1.80V	1104	891.5	629.6	392.6	292.1	244.2	201.1	172.1	139.5	121.0
1.85V	933.7	802.6	581.7	371.1	277.7	225.0	191.5	162.8	132.6	112.8

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

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	2852	2190	1416	851.5	638.0	512.9	434.3	372.4	296.5	251.4
1.65V	2778	2178	1411	839.2	625.5	505.2	429.4	367.7	294.0	249.1
1.70V	2624	2061	1385	826.9	615.9	503.3	425.6	359.1	289.5	245.2
1.75V	2337	1858	1276	782.8	593.8	487.0	407.8	341.4	280.4	241.3
1.80V	2023	1695	1203	747.6	569.3	475.8	394.5	337.4	275.8	232.7
1.85V	1725	1528	1112	707.7	542.3	440.7	376.5	319.6	262.1	224.0

All mentioned values are average values.



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## Temperature and Valid Capacity



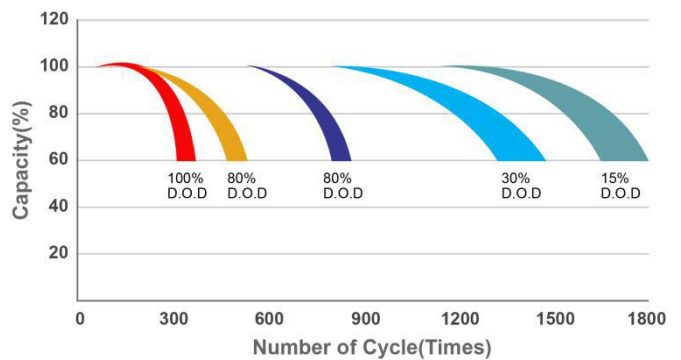
## Discharge Characteristics at Various Rates @25°C/77



## 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:

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