



FUJIAN YAHENG POWER TECHNOLOGY GROUP CO.,LTD

GEL GFM2000D 2V2000AH

GFM2000D 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..

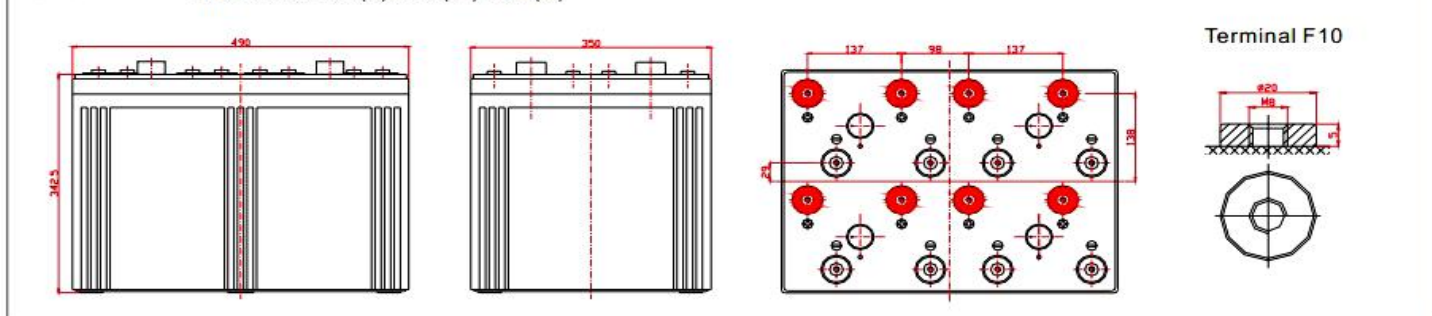


Specification

Cells Per Unit	1
Voltage Per Unit	2V
Capacity	2000AH@10hr-rate to 1.75V per cell @ 25°C
Weight	Approx. 125.0kg (Tolerance±3%)
Max. Discharge Current	7500A(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	600.0A
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: 490(L)×350(W)×383(H)



Constant Current Discharge Characteristics: A(25°C)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	2715	2003	1289	766.1	570.6	454.9	383.0	321.7	259.7	217.1
1.65V	2582	1923	1233	738.2	546.6	438.9	367.1	314.0	248.1	213.3
1.70V	2408	1813	1209	726.2	534.7	434.9	363.1	306.2	244.2	209.4
1.75V	2138	1631	1113	686.3	506.7	411.0	347.1	290.7	236.4	205.6
1.80V	1840	1486	1049	654.4	486.8	407.0	335.2	286.8	232.6	201.7
1.85V	1556	1338	969.6	618.5	462.8	375.1	319.2	271.3	220.9	188.0

Constant Power Discharge Characteristics: W(25°C)

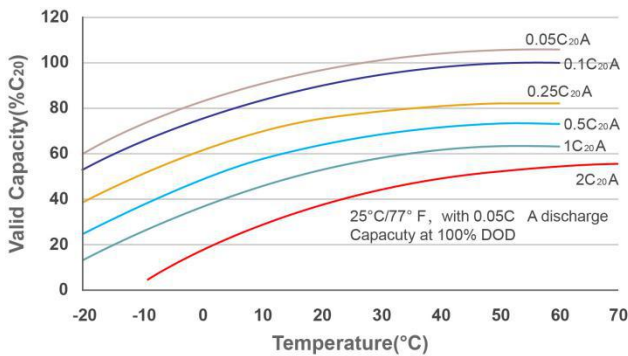
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	4754	3650	2360	1419	1063	854.8	723.9	620.7	494.2	419.1
1.65V	4629	3630	2352	1399	1042	842.1	715.7	612.8	490.0	415.1
1.70V	4373	3436	2309	1378	1027	838.8	709.4	598.5	482.5	408.6
1.75V	3895	3096	2127	1305	989.7	796.7	679.6	569.1	467.3	402.1
1.80V	3372	2825	2005	1246	948.8	793.0	657.5	562.3	459.7	387.8
1.85V	2875	2547	1854	1179	903.8	734.6	627.5	532.7	436.8	373.4

All mentioned values are average values.

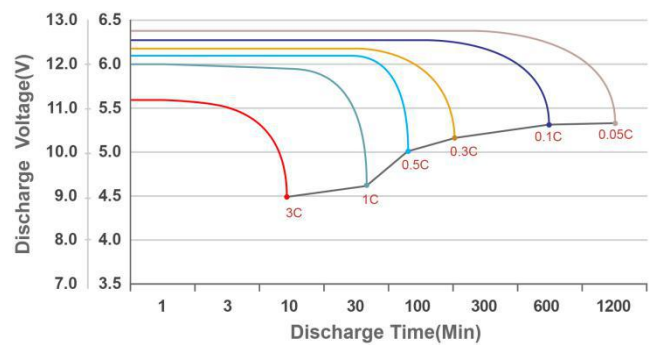


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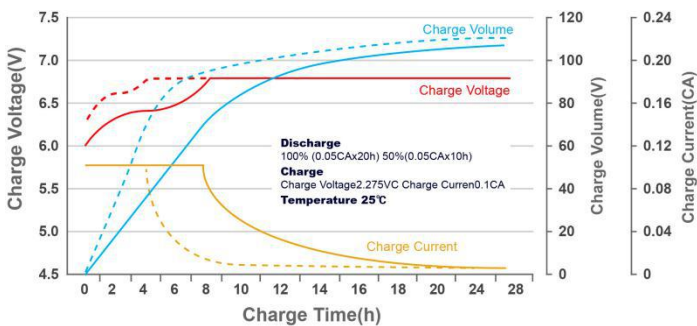
Temperature and Valid Capacity



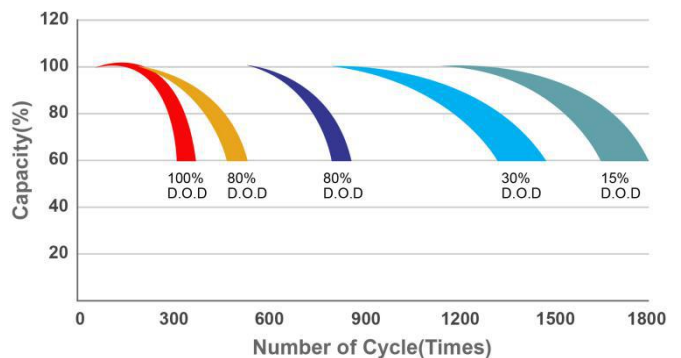
Discharge Characteristics at Various Rates @25°C/77



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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