



FUJIAN YAHENG POWER TECHNOLOGY GROUP CO.,LTD

GEL GFM2500D 2V2500AH

GFM2500D 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..

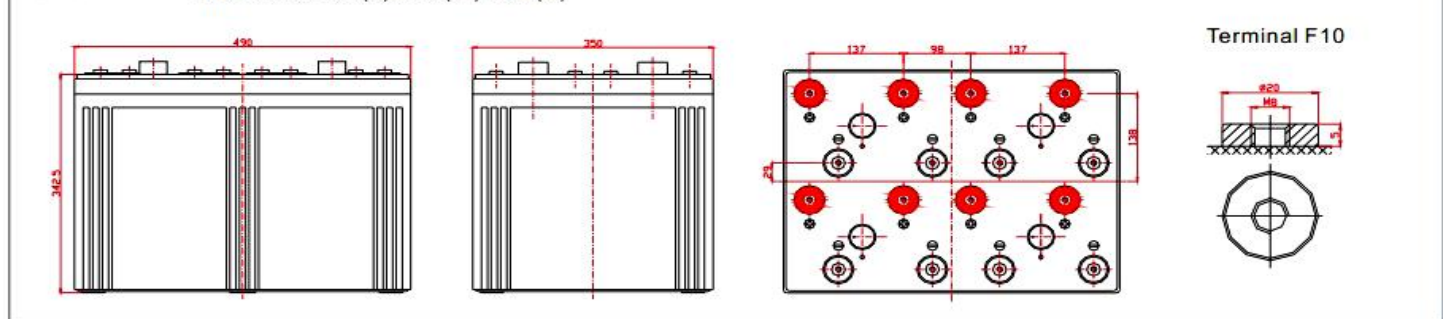


Specification

Cells Per Unit	1
Voltage Per Unit	2V
Capacity	2500AH@10hr-rate to 1.75V per cell @ 25°C
Weight	Approx. 140.0kg (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	750.0A
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: 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	3394	2503	1611	957.6	713.2	568.6	478.8	402.1	324.6	271.3
1.65V	3228	2404	1541	922.7	683.3	548.6	458.9	392.4	310.1	266.6
1.70V	3010	2266	1511	907.7	668.3	543.6	453.9	382.8	305.2	261.8
1.75V	2672	2039	1392	857.9	633.4	513.7	433.9	363.4	295.5	256.9
1.80V	2300	1857	1312	818.0	608.5	508.7	419.0	358.5	290.7	252.1
1.85V	1945	1672	1212	773.1	578.6	468.8	399.0	339.2	276.2	235.1

Constant Power Discharge Characteristics: W(25°C)

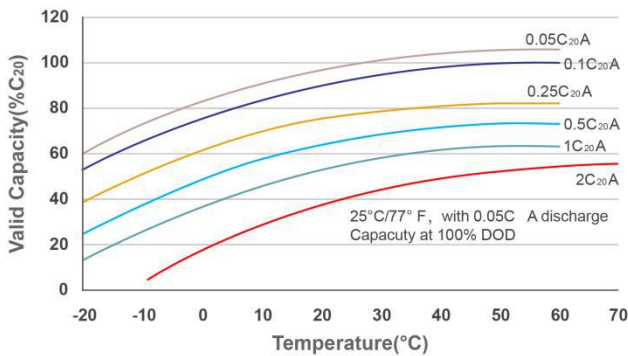
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	5942	4562	2950	1774	1329	1068	904.9	775.9	617.7	523.8
1.65V	5787	4538	2940	1748	1303	1053	894.6	766.0	612.5	518.9
1.70V	5466	4295	2886	1732	1283	1048	886.7	748.2	603.1	510.8
1.75V	4869	3870	2658	1631	1237	995.9	849.5	711.3	584.1	502.7
1.80V	4215	3531	2507	1557	1186	991.3	821.9	702.9	574.7	484.7
1.85V	3594	3184	2317	1474	1130	918.2	784.4	665.9	546.1	466.7

All mentioned values are average values.



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Temperature and Valid Capacity



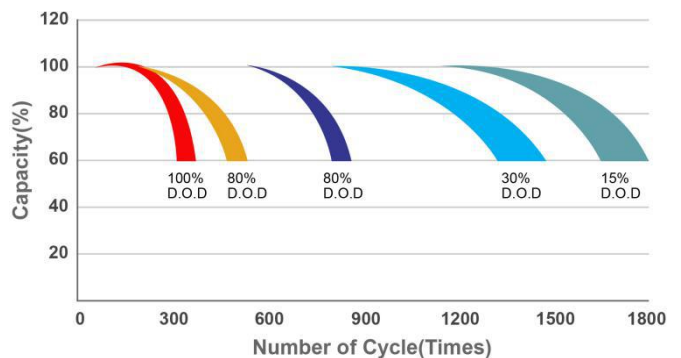
Discharge Characteristics at Various Rates @25°C/77



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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