

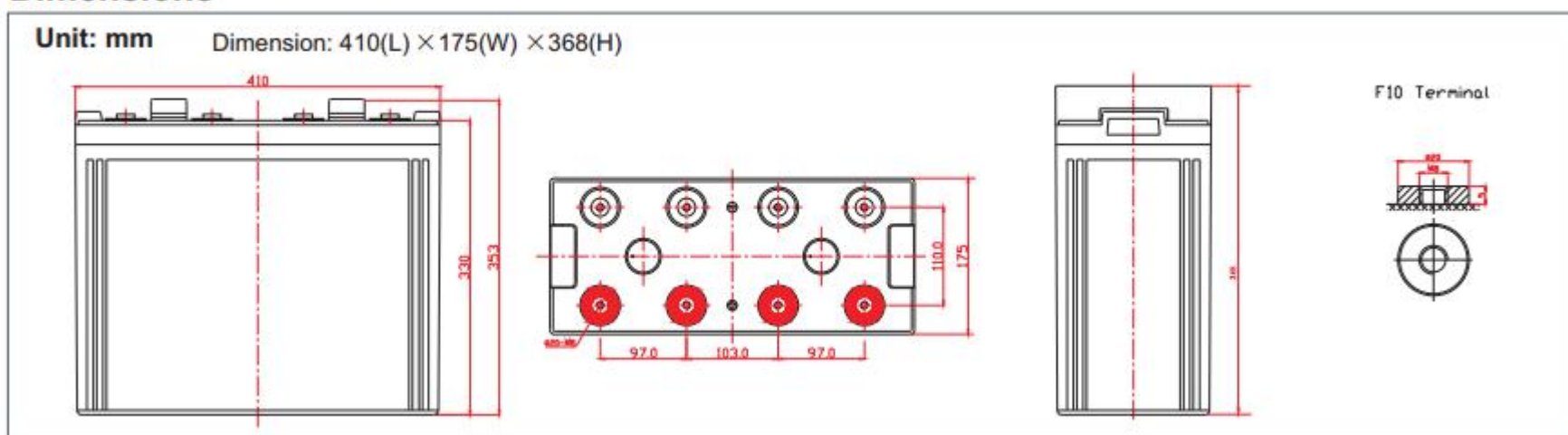
GFM800 is a general purpose battery with 18 years floating design life. With heavy duty grid, thick plates, special additives, GFM series battery maintain very long life time and stable performance.



Specification

Cells Per Unit	1
Voltage Per Unit	2
Capacity	800AH@10hr-rate to 1.75V per cell @ 25°C
Weight	Approx.50kg (Tolerance ± 3%)
Max. Discharge Current	4000A(5sec)
Internal Resistance	Approx. 0.60mΩ
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 Current Limit	160A
Equalization and Cycle service	2.43 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	Thread insert & Bolt (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	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

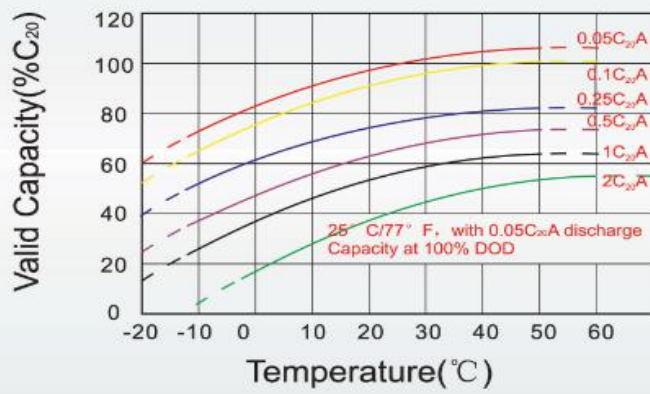
Constant Power Discharge Characteristics: W(25°C)

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

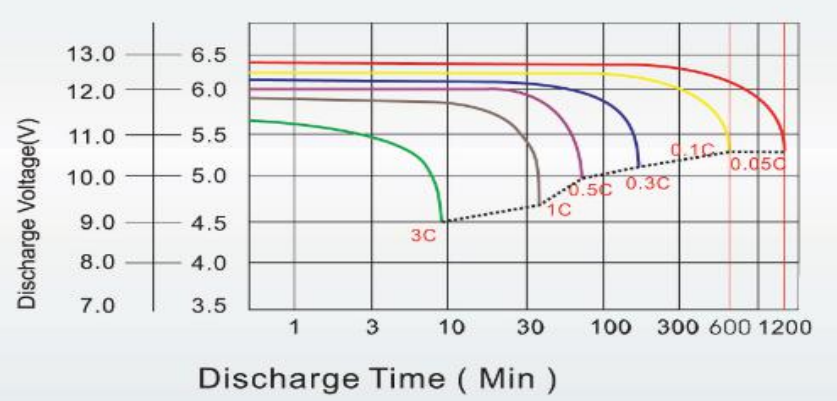
All mentioned values are average values.



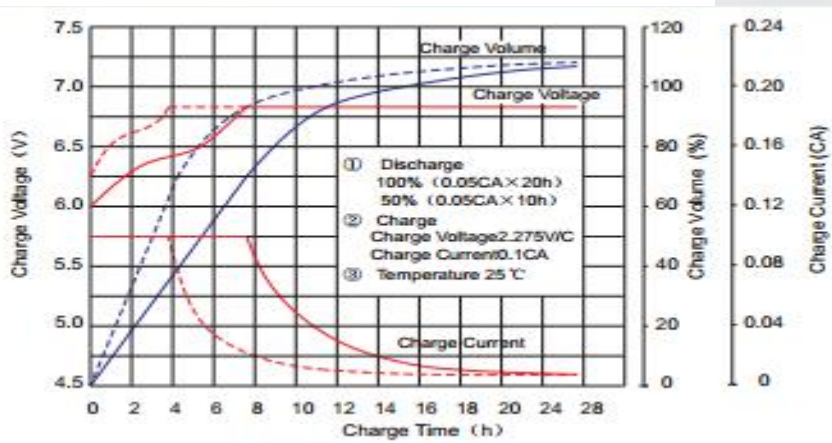
Temperature and Valid Capacity



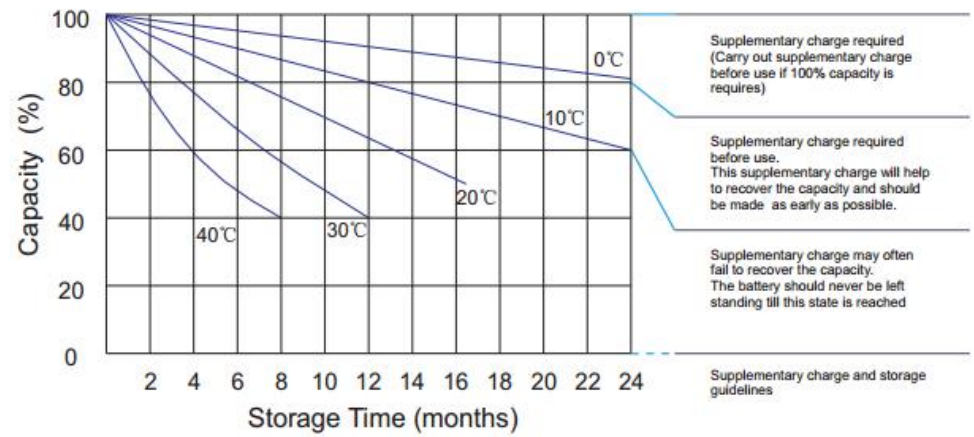
Discharge Characteristics at Various Rates @25°C/77°F



Charge characteristic curve for standby use



Storage characteristic



Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	$A \leq 0.2C$	$0.2C \leq A \leq 1.0C$	$\geq 1.0C$

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

Charging Method:

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

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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