

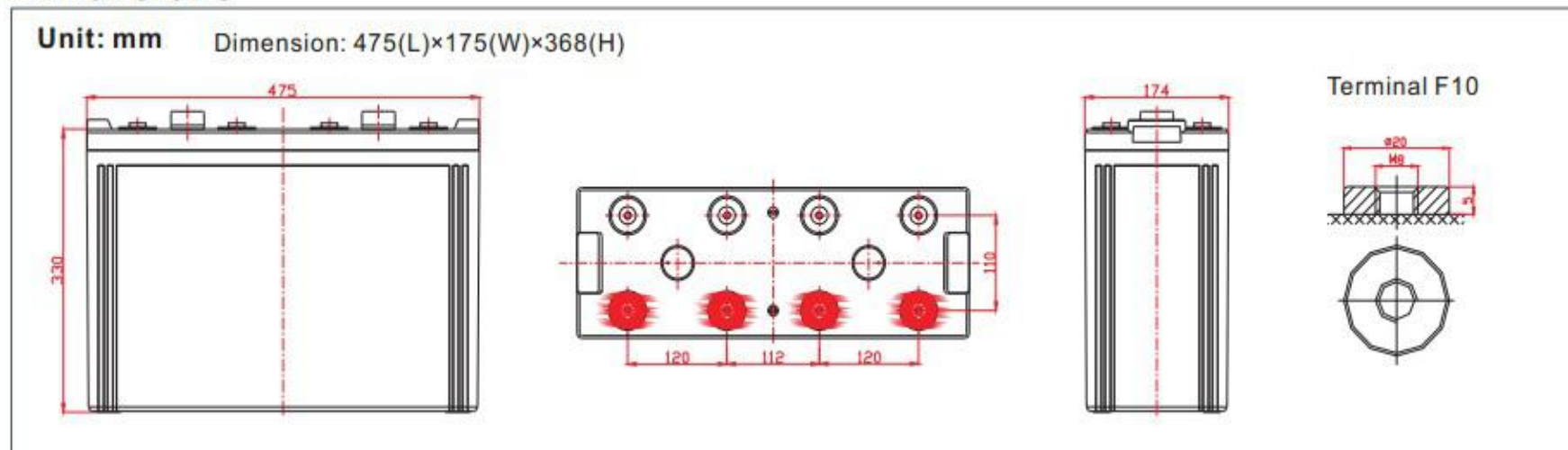
GFM1000 is a general purpose battery with 18 years floating design life. With heavy duty grid, thick plates, special additives, GFM series battery maintain very long life time and stable performance.



Specification

Cells Per Unit	1
Voltage Per Unit	2
Capacity	1000AH@10hr-rate to 1.75V per cell @ 25°C
Weight	Approx.62kg (Tolerance ± 3%)
Max. Discharge Current	4000A(5sec)
Internal Resistance	Approx. 0.55mΩ
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	200A
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	1358	1001	644.4	383.0	285.3	227.4	191.5	160.9	129.8	108.5
1.65V	1291	961.4	616.5	369.1	273.3	219.5	183.5	157.0	124.0	106.7
1.70V	1204	906.3	604.5	363.1	267.3	217.5	181.5	153.1	122.1	104.7
1.75V	1069	815.6	556.6	343.1	253.4	205.5	173.6	145.4	118.2	102.8
1.80V	920.0	742.9	524.7	327.2	243.4	203.5	167.6	143.4	116.3	100.8
1.85V	778.1	668.8	484.8	309.2	231.4	187.5	159.6	135.7	110.5	94.02

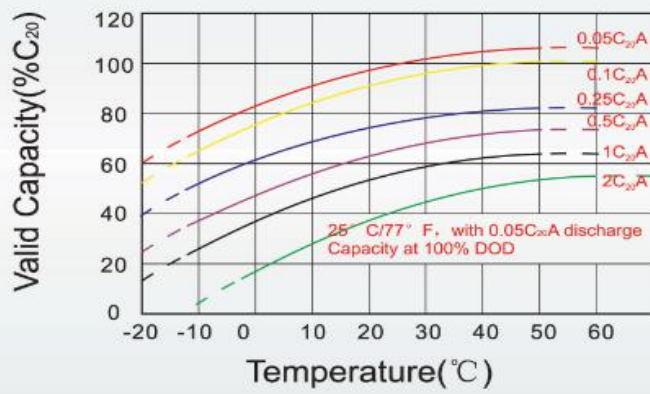
Constant Power Discharge Characteristics: W(25°C)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	2377	1825	1180	709.6	531.7	427.4	361.9	310.4	247.1	209.5
1.65V	2315	1815	1176	699.3	521.2	421.0	357.9	306.4	245.0	207.6
1.70V	2187	1718	1154	689.1	513.3	419.4	354.7	299.3	241.2	204.3
1.75V	1948	1548	1063	652.3	494.9	398.3	339.8	284.5	233.6	201.1
1.80V	1686	1412	1003	623.0	474.4	396.5	328.8	281.2	229.9	193.9
1.85V	1438	1273	926.8	589.7	451.9	367.3	313.7	266.4	218.4	186.7

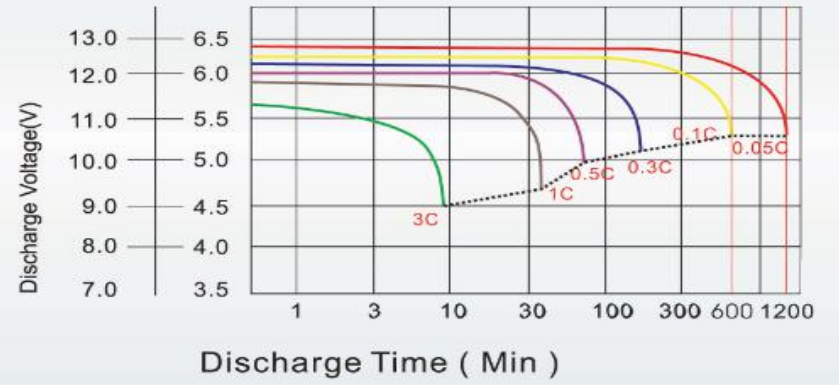
All mentioned values are average values.



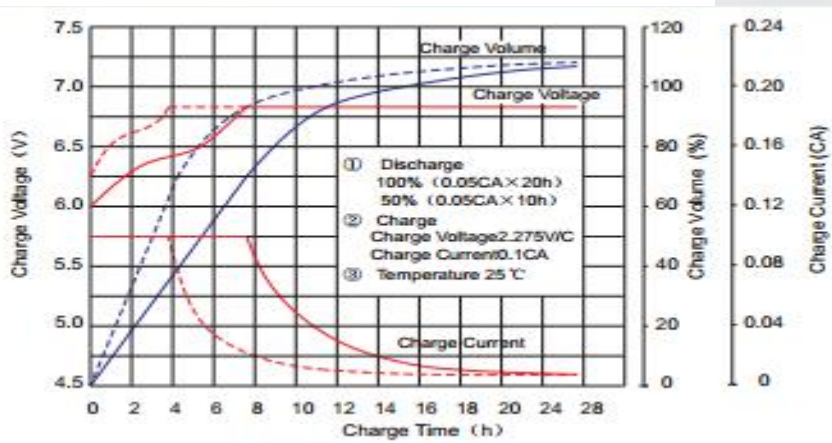
Temperature and Valid Capacity



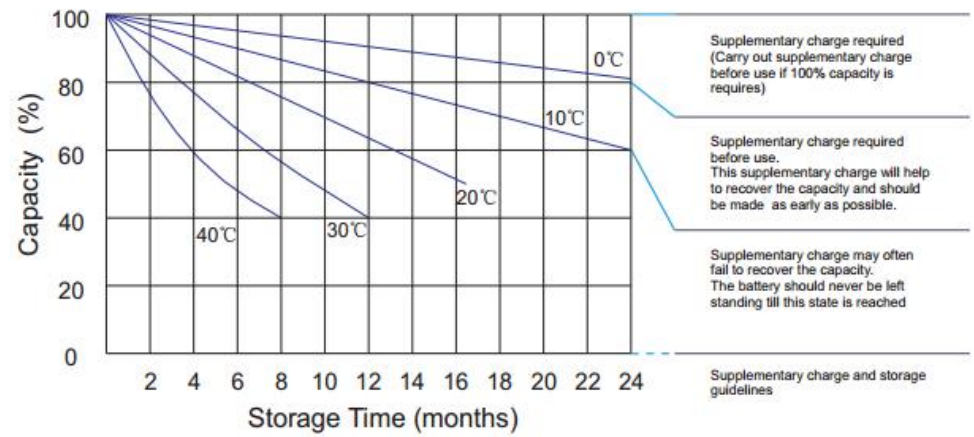
Discharge Characteristics at Various Rates @25°C/77°F



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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