

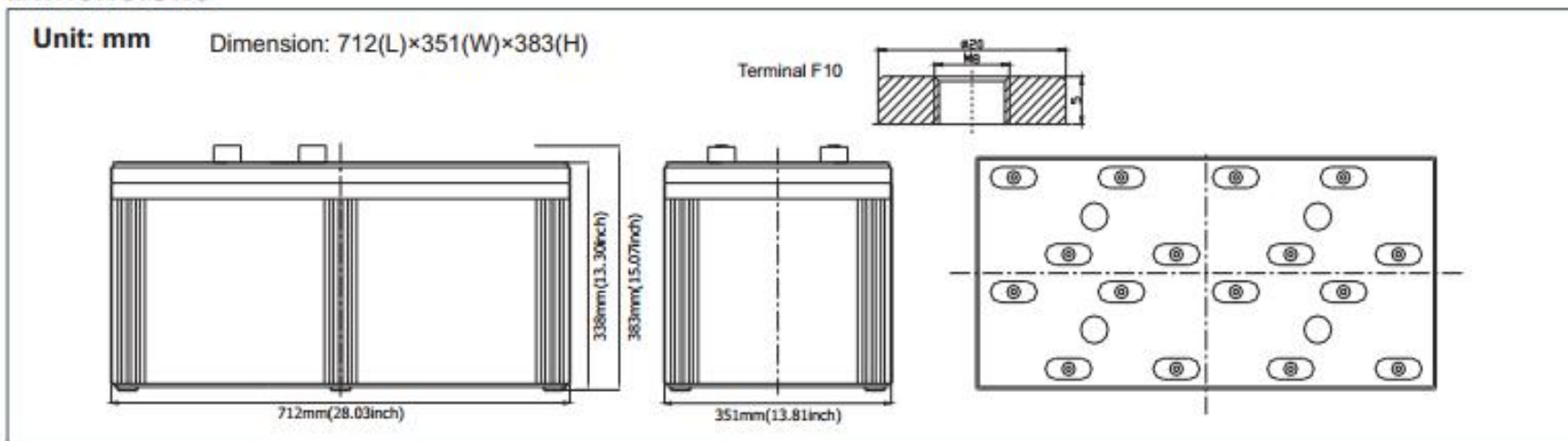
GFM3000 is a general purpose battery with 18 years floating design life. With heavy duty grid, thick plates, special additives, GFM series battery maintain very long life time and stable performance.



Specification

Cells Per Unit	1
Voltage Per Unit	2
Capacity	3000AH@10hr-rate to 1.75V per cell @ 25°C
Weight	Approx.190kg (Tolerance ± 3%)
Max. Discharge Current	8000A(5sec)
Internal Resistance	Approx. 0.35mΩ
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	600A
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	4073	3004	1933	1149	855.9	682.3	574.6	482.6	389.5	325.6
1.65V	3873	2884	1849	1107	819.9	658.4	550.6	470.9	372.1	320.0
1.70V	3612	2719	1813	1089	802.0	652.4	544.6	459.3	366.3	314.1
1.75V	3206	2447	1670	1029	760.1	616.5	520.7	436.1	354.7	308.3
1.80V	2760	2229	1574	981.5	730.2	610.5	502.7	430.2	348.8	302.5
1.85V	2334	2006	1454	927.7	694.3	562.6	478.8	407.0	331.4	282.1

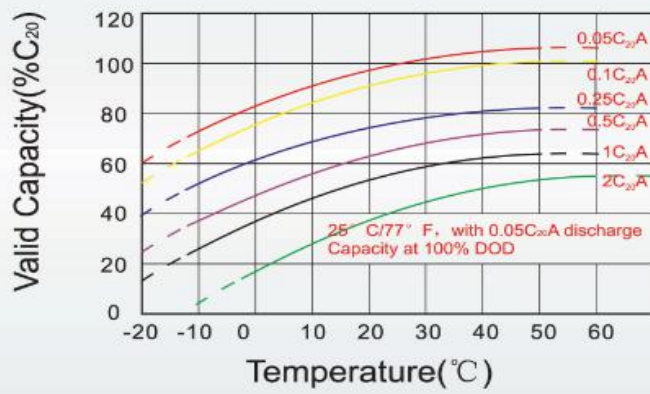
Constant Power Discharge Characteristics: W(25°C)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	7131	5474	3540	2129	1595	1282	1086	931.1	741.3	628.6
1.65V	6944	5445	3527	2098	1564	1263	1074	919.2	735.0	622.7
1.70V	6560	5153	3463	2067	1540	1258	1064	897.8	723.7	613.0
1.75V	5843	4644	3190	1957	1485	1195	1019.4	853.6	700.9	603.2
1.80V	5057	4237	3008	1869	1423	1190	986.3	843.5	689.6	581.7
1.85V	4343	3820	2781	1769	1356	1102	941.2	799.1	655.3	560.1

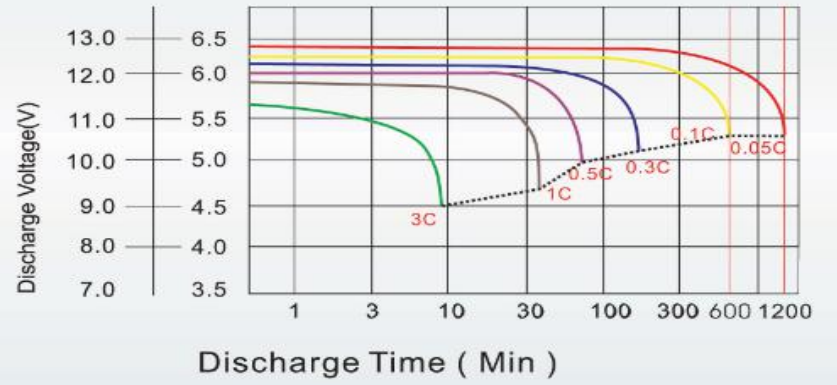
All mentioned values are average values.



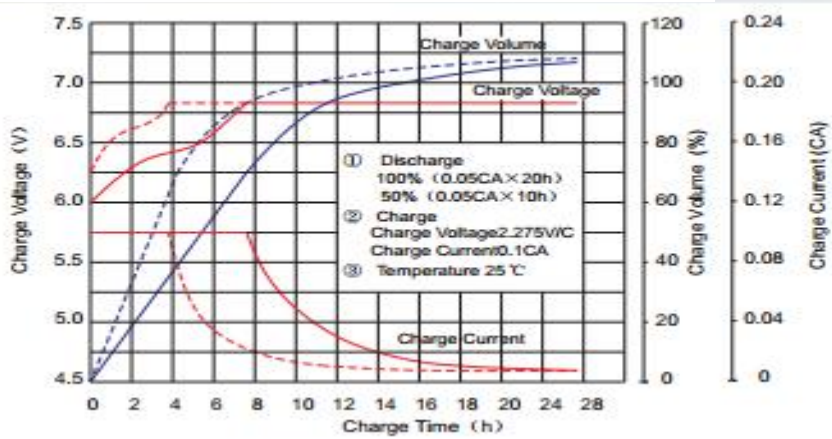
Temperature and Valid Capacity



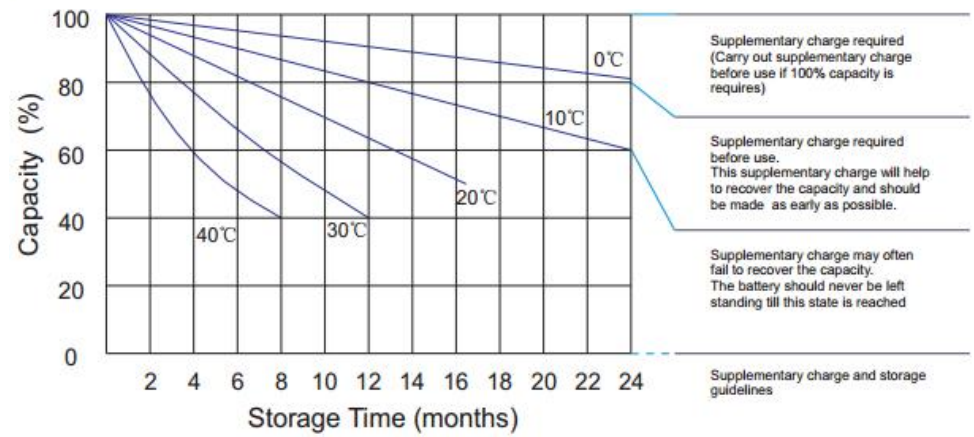
Discharge Characteristics at Various Rates @25°C/77°F



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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