



FUJIAN YAHENG POWER TECHNOLOGY GROUP CO.,LTD

6GFM160 12V160AH



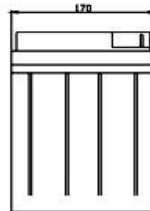
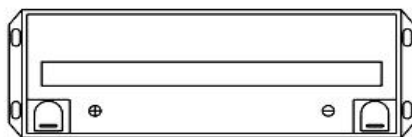
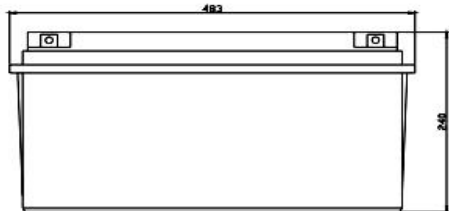
6GFM160 is a general purpose battery with 15 years floating design life, meet with IEC,JIS standard. With heavy duty grid thickness plates, special additives, FM series battery have long and reliable standby service life.

Specification

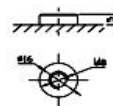
Cells Per Unit	6
Voltage Per Unit	12V
Capacity	160AH@10hr-rate to 1.75V per cell @ 25°C
Weight	Approx. 48kg (Tolerance±3%)
Max. Discharge Current	1600A(5sec)
Internal Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25±5°C
Float Charging Voltage	13.6 to 13.8 VDC/unit Average at 25°C
Recommended Maximum Charging	48.0A Current Limit
Equalization and Cycle service	14.6 to 14.8 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 F12/L20
Container Material	A.B.S. UL94-HB, Flammability resistance of UL94-V2 can be avail upon request

Dimensions

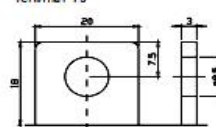
Unit: mm Dimension: 483(L)×170(W)×240(H)



Terminal F12



Terminal F5



Constant Current Discharge Characteristics: A(25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	461.7	344.8	290.3	180.3	104.0	62.23	43.01	35.25	28.85	19.87	16.80	9.243
10.0V	448.4	328.1	284.3	177.3	103.5	61.76	42.85	35.09	28.68	19.71	16.64	9.075
10.2V	435.1	316.5	279.8	175.7	102.6	61.29	42.52	34.92	28.51	19.55	16.48	8.907
10.5V	190.7	292.1	266.4	171.3	101.6	60.83	42.35	34.60	28.17	19.39	16.32	8.738
10.8V	352.7	266.3	245.6	163.8	99.20	59.74	41.20	33.78	27.67	19.07	16.16	8.570
11.1V	301.1	238.0	220.3	153.5	94.24	57.08	39.39	32.15	26.48	18.26	15.67	8.066

Constant Power Discharge Characteristics: W(25°C)

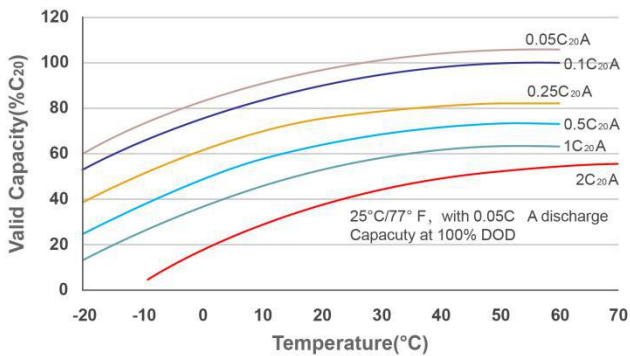
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	4776	3672	3193	2065	1202	733.5	511.9	420.2	344.2	237.3	200.8	110.8
10.0V	4682	3560	3142	2030	1199	729.6	512.0	419.7	343.3	236.2	199.6	108.9
10.2V	4628	3466	3106	2015	1190	725.2	509.8	418.7	342.2	234.6	197.8	106.9
10.5V	4214	3227	2963	1969	1179	719.9	507.8	414.8	338.1	232.7	195.8	104.9
10.8V	3838	2975	2739	1887	1157	710.8	494.0	405.4	332.0	228.8	193.9	102.8
11.1V	3371	2690	2465	1772	1108	684.4	472.6	385.8	317.7	219.1	188.1	96.8

All mentioned values are average values.

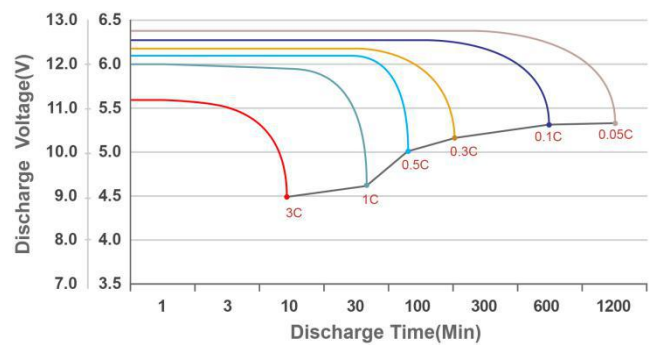


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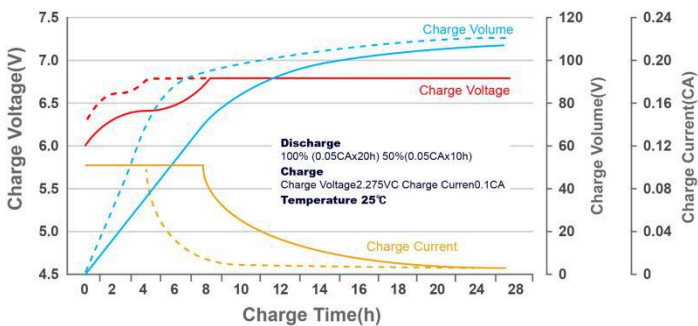
Temperature and Valid Capacity



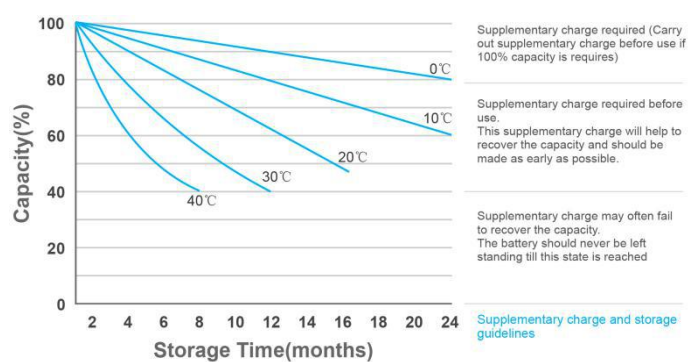
Discharge Characteristics at Various Rates @25°C/77



Charge characteristic curve for standby use



Storage characteristic



Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75V	1.75V	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	$-0.2C * 2h + 2.4 - 2.45V/cell * 24h$, 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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