FUJIAN YAHENG POWER TECHNOLOGY GROUP CO.,LTD

3FM12 6V12AH

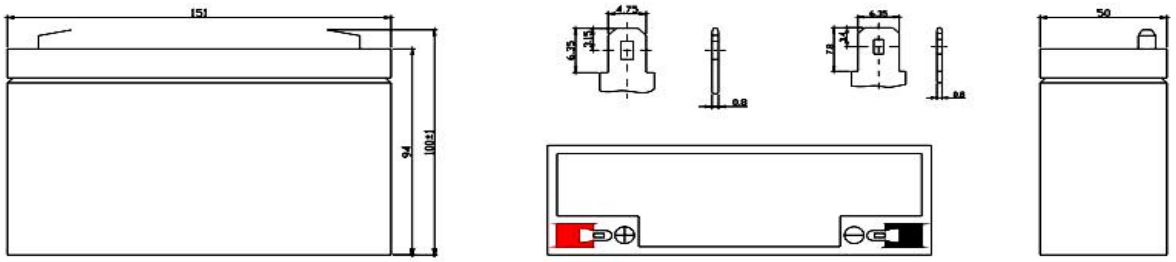
3FM12 is a general purpose battery with 5 years floating design life, meet with IEC,JIS standard. With heavy duty grid thickness plates, special additives, FM series battery have long and reliable standby service life.

Specification

Cells Per Unit	3
Voltage Per Unit	6V
Capacity	12AH@20hr-rate to 1.75V per cell @ 25℃
Weight	Approx.1.75kg (Tolerance±3%)
Max. Discharge Current	120A(5sec)
Internal Temperature Range	Discharge: -20℃~60℃ Charge: 0℃~50℃ Storage: -20℃~60℃
Normal Operating Temperature Range	25±5℃
Float Charging Voltage	6.8 to 6.9 VDC/unit Average at 25℃
Recommended Maximum Charging	3.6A Current Limit
Equalization and Cycle service	7.3 to 7.4 VDC /unit Average at 25℃
Self Discharge	YAHENG Vale Regulated Lead Acid(VRLA) Can be stored for more than 6 months at 25℃. Self-discharge ratio less than 3% per month at25℃. Please charge batteries before using
Terminal	Terminal F1/F2
Container Material	A.B.S. UL94-HB, Flammability resistance of UL94-V2 can be avail upon request

Dimensions

Unit: mm Dimension: 151(L)×50(W)×100(H)



Constant Current Discharge Characteristics: A(25℃)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	5HR	8HR	10HR	20HR
4.80V	48.79	31.99	25.08	14.08	8.364	4.817	3.274	2.176	1.386	1.200	0.673
5.00V	47.03	31.19	24.27	13.90	8.136	4.720	3.213	2.139	1.380	1.187	0.649
5.10V	44.27	29.65	23.60	13.68	8.060	4.670	3.184	2.115	1.368	1.169	0.637
5.25V	39.79	27.72	22.26	13.31	7.901	4.609	3.156	2.090	1.355	1.163	0.618
5.40V	35.65	25.85	21.00	12.87	7.758	4.571	3.119	2.068	1.350	1.144	0.582
5.55V	31.19	23.70	19.37	12.38	7.550	4.387	3.058	2.047	1.339	1.126	0.572

Constant Power Discharge Characteristics: W(25℃)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	5HR	8HR	10HR	20HR
4.80V	256.7	170.1	134.2	80.56	48.56	28.10	19.13	12.88	8.296	7.185	4.034
5.00V	250.0	166.6	132.3	79.73	47.85	27.86	19.09	12.81	8.264	7.118	3.891
5.10V	237.8	160.0	130.6	79.04	47.49	27.68	19.02	12.69	8.201	7.050	3.819
5.25V	217.0	153.4	123.8	77.42	46.85	27.46	18.94	12.54	8.123	6.977	3.711
5.40V	195.8	143.5	116.9	75.59	46.09	27.23	18.72	12.41	8.097	6.871	3.495
5.55V	172.7	133.6	110.1	73.52	45.23	26.29	18.36	12.29	8.040	6.768	3.440

All mentioned values are average values.

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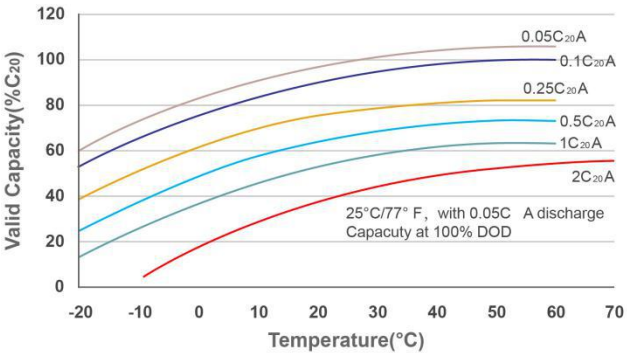
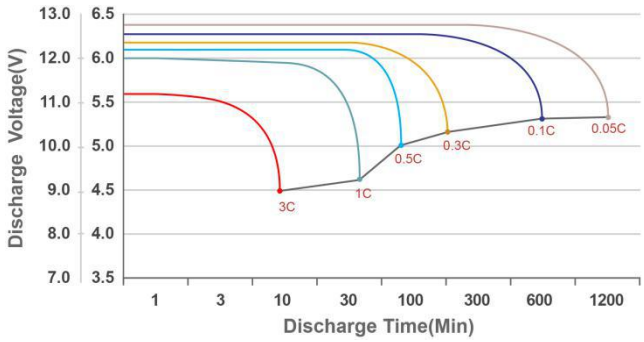
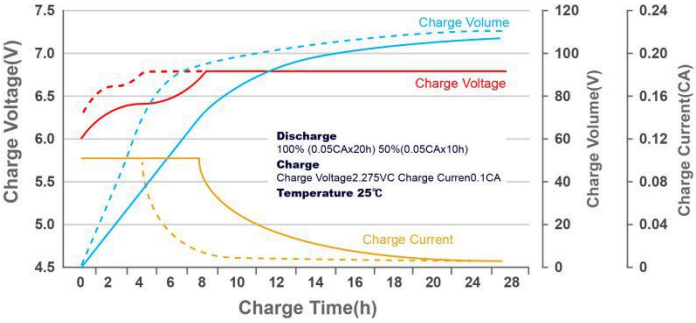
Temperature and Valid Capacity



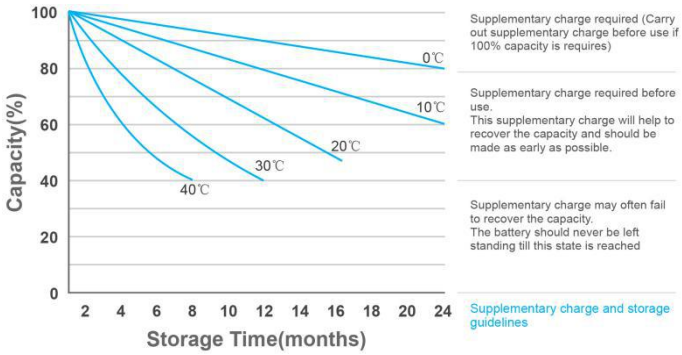
Discharg Characteristics at Various Rates @25℃/77



Charge characteristic curve for standby use



Storage characteristic



Discharge Current VS. Discharge Voltag

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℃

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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