FUJIAN YAHENG POWER TECHNOLOGY GROUP CO.,LTD

6FM18H 12V18AH

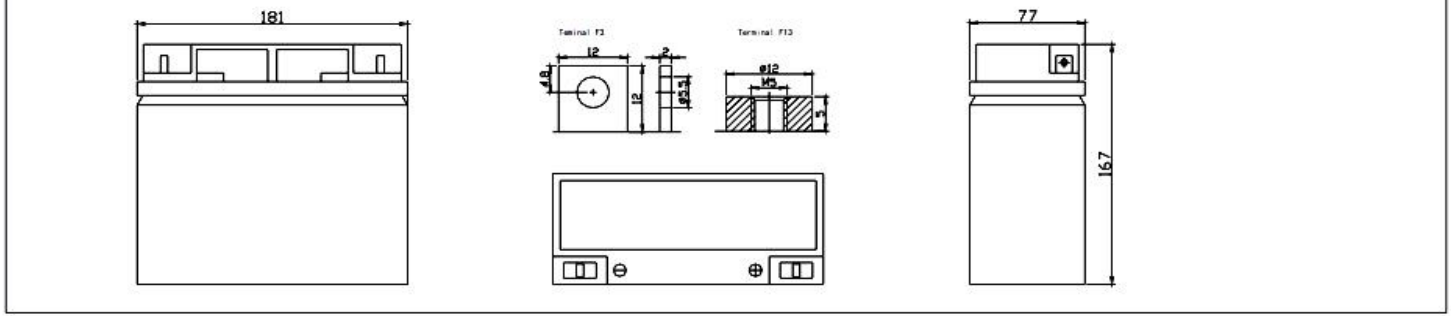
6FM18H is a high rate discharge battery.It is specially designed for applications where need high power output. By optimum design of battery grids and plate formula, the battery can deliver up to 40% more power than the standard range. Suitable for UPS/EPS where high current loads is required.

Specification

Cells Per Unit	6
Voltage Per Unit	12V
Capacity	80W@10min-rate to 1.6V per cell @ 25℃
Weight	Approx. 5.4kg (Tolerance±3%)
Max. Discharge Current	180A(5sec)
Internal Temperature Range	Discharge: -20℃~60℃ Charge: 0℃~50℃ Storage: -20℃~60℃
Normal Operating Temperature Range	25±5℃
Float Charging Voltage	13.6 to 13.8 VDC/unit Average at 25℃
Recommended Maximum Charging	5.4A Current Limit
Equalization and Cycle service	14.6 to 14.8 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 L12
Container Material	A.B.S. UL94-HB, Flammability resistance of UL94-V2 can be avail upon request

Dimensions

Unit: mm Dimension: 181(L)×77(W)×167(H)



Constant Current Discharge Characteristics: A(25℃)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	73.19	47.99	37.61	21.11	12.55	7.226	4.910	3.929	3.263	2.078	1.799	1.010
10.0V	70.55	46.79	36.41	20.84	12.20	7.080	4.820	3.875	3.208	2.070	1.781	0.973
10.2V	66.40	44.47	35.40	20.53	12.09	7.005	4.777	3.837	3.173	2.051	1.754	0.955
10.5V	59.69	41.58	33.39	19.96	11.85	6.914	4.734	3.800	3.135	2.033	1.745	0.927
10.8V	53.48	38.78	31.50	19.30	11.64	6.857	4.679	3.781	3.102	2.025	1.716	0.873
11.1V	46.79	35.55	29.06	18.75	11.32	6.851	4.587	3.748	3.070	2.009	1.689	0.858

Constant Power Discharge Characteristics: W(25℃)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	770.0	510.4	402.7	241.7	145.7	84.30	57.40	46.50	38.63	24.89	21.56	12.10
10.0V	749.9	499.8	396.9	239.2	143.5	83.58	57.28	46.39	38.43	24.79	21.35	11.67
10.2V	713.3	480.0	391.7	237.1	142.5	83.05	57.07	46.01	38.06	24.60	21.15	11.46
10.5V	651.0	460.2	371.3	232.3	140.6	82.38	56.83	45.59	37.61	24.40	20.93	11.13
10.8V	587.4	430.5	350.8	226.8	138.3	81.70	56.17	45.42	37.22	24.29	20.61	10.49
11.1V	518.0	400.8	330.4	220.6	135.7	78.88	55.07	44.96	36.86	24.12	20.31	10.32

All mentioned values are average values.

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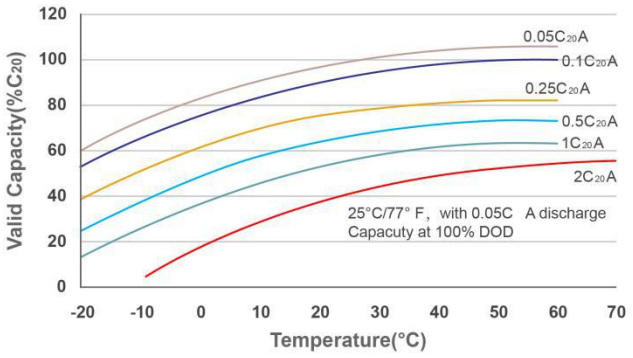
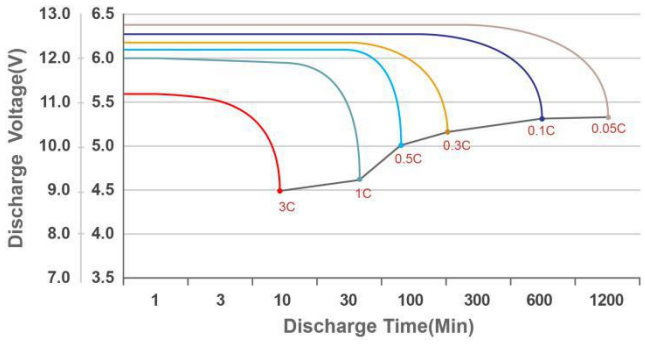
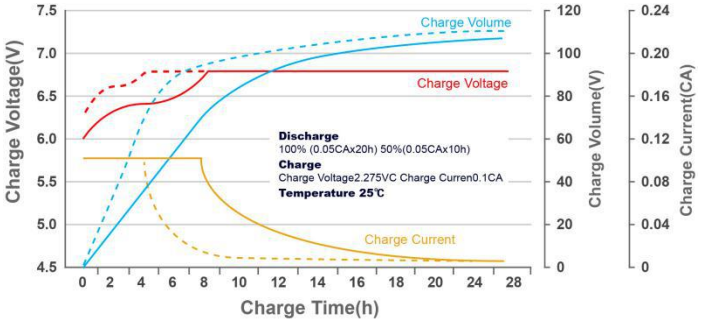
Temperature and Valid Capacity



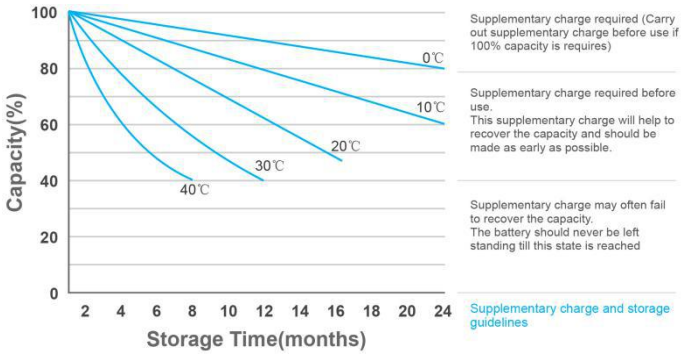
Discharg Characteristics at Various Rates @25℃/77



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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