



# FUJIAN YAHENG POWER TECHNOLOGY GROUP CO.,LTD

## 6GFM80 12V80AH

6GFM80 is a general purpose battery with 10 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.

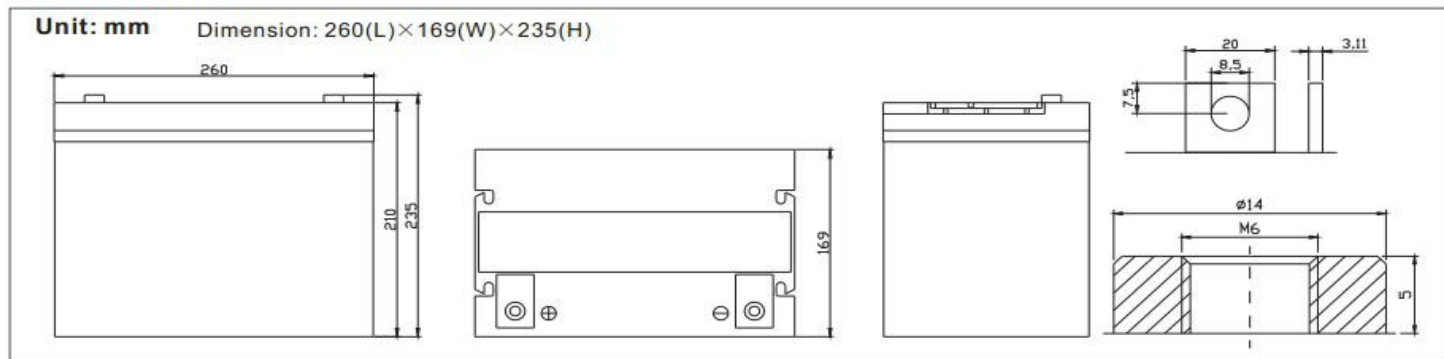


### Specification

Cells Per Unit	6
Voltage Per Unit	12V
Capacity	80AH@10hr-rate to 1.75V per cell @ 25°C
Weight	Approx. 25.5kg (Tolerance±3%)
Max. Discharge Current	800A(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	24.0A 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 at 25°C. Please charge batteries before using
Terminal	Terminal F14/L20
Container Material	A.B.S. UL94-HB, Flammability resistance of UL94-V2 can be avail upon request

### Dimensions

Unit: mm Dimension: 260(L)×169(W)×235(H)



### Constant Current Discharge Characteristics: A(25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	268.0	197.4	153.8	93.8	52.0	31.1	21.5	17.8	15.0	10.2	8.48	4.53
10.0V	260.3	187.8	150.7	92.1	51.8	30.9	21.4	17.7	14.9	10.1	8.40	4.44
10.2V	252.6	181.2	148.3	90.4	51.3	30.6	21.2	17.6	14.8	10.1	8.32	4.36
10.5V	226.8	167.2	141.2	89.7	50.8	30.4	21.1	17.5	14.6	10.0	8.24	4.28
10.8V	204.7	152.4	130.2	88.2	49.6	29.9	20.6	17.0	14.4	9.8	8.16	4.20
11.1V	174.8	136.2	116.8	82.6	47.1	28.5	19.7	16.2	13.7	9.4	7.91	3.95

### Constant Power Discharge Characteristics: W(25°C)

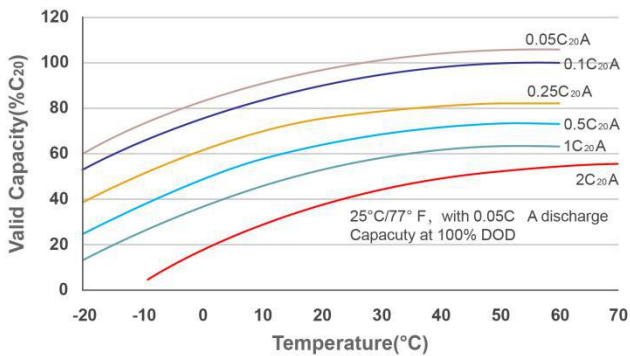
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	2828	2102	1677	1052	601	367	256	212	179	122	101	54.3
10.0V	2772	2073	1650	1039	599	365	256	212	178	122	101	53.3
10.2V	2741	1984	1632	1032	595	362	255	211	178	121	100	52.4
10.5V	2495	1847	1556	1025	589	360	254	209	175	120	99	51.4
10.8V	2272	1703	1439	1008	579	355	247	205	172	118	98	50.4
11.1V	1996	1539	1295	950	554	342	236	195	165	113	95	47.4

All mentioned values are average values.

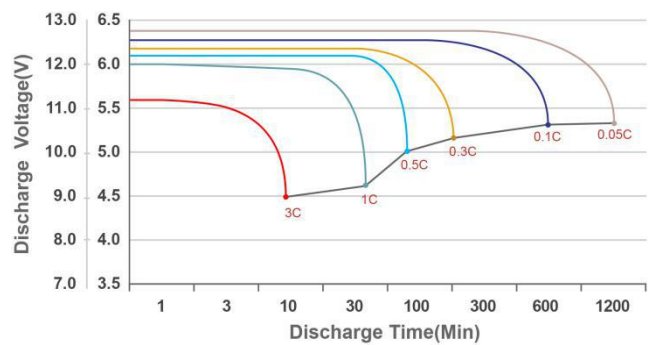


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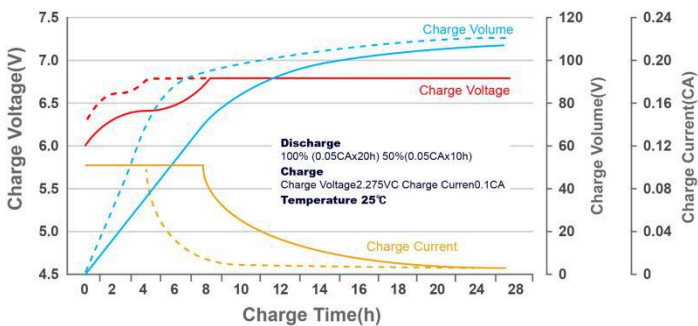
## Temperature and Valid Capacity



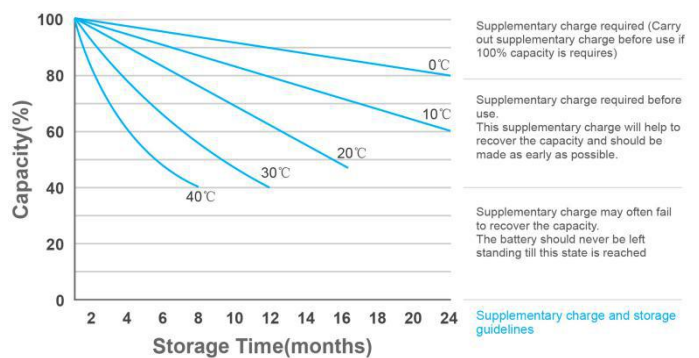
## Discharge Characteristics at Various Rates @25°C/77



## 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	$-0.2C \times 2h + 2.4 - 2.45V/cell \times 24h$ , 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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