



# FUJIAN YAHENG POWER TECHNOLOGY GROUP CO.,LTD

## 3FM1.3 6V1.3AH



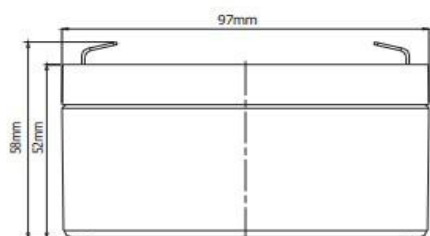
3FM1.3 is a general purpose battery with 5 years floating design life, meet with IEC,JIS standard. With heavy duty grid thickness plates, special additives, FM series battery have long and reliable standby service life.

### Specification

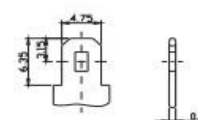
Cells Per Unit	3
Voltage Per Unit	6V
Capacity	1.3AH@20hr-rate to 1.75V per cell @ 25℃
Weight	Approx. 0.3kg (Tolerance±3%)
Max. Discharge Current	13A(5sec)
Internal Temperature Range	Discharge: -20℃~60℃ Charge: 0℃~50℃ Storage: -20℃~60℃
Normal Operating Temperature Range	25±5℃
Float Charging Voltage	6.8 to 6.9 VDC/unit Average at 25℃
Recommended Maximum Charging	0.39A Current Limit
Equalization and Cycle service	7.3to 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
Container Material	A.B.S. UL94-HB, Flammability resistance of UL94-V2 can be avail upon request

### Dimensions

Unit: mm Dimension: 97(L)×24(W)×58(H)



Terminal F1



### Constant Current Discharge Characteristics: A(25℃)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	8HR	10HR	20HR
4.80V	5	2.8	2.2	1.3	0.8	0.45	0.35	0.22	0.13	0.12
5.00V	4.4	2.7	2.1	1.2	0.8	0.42	0.30	0.21	0.13	0.12
5.10V	4.3	2.7	2.1	1.2	0.7	0.42	0.30	0.20	0.13	0.12
5.25V	4.1	2.6	2.0	1.2	0.7	0.42	0.30	0.20	0.13	0.12
5.40V	4.0	2.5	2.0	1.1	0.7	0.41	0.29	0.20	0.13	0.12

### Constant Power Discharge Characteristics: W(25℃)

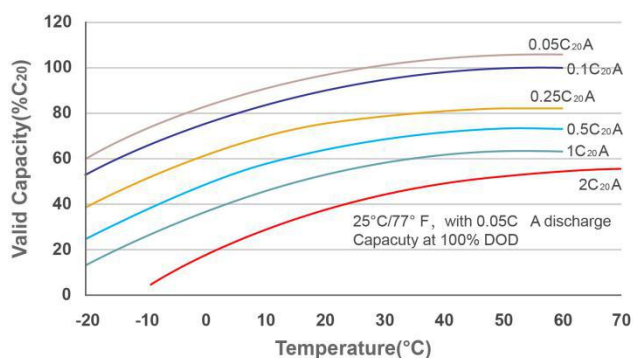
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	5HR	8HR	10HR	20HR
4.80V	49	32	25	14	9	5	3.6	2.5	1.6	1.3	0.7
5.00V	49	31	24	14	9	5	3.6	2.5	1.6	1.3	0.7
5.10V	48	30	24	14	9	5	3.6	2.5	1.6	1.3	0.7
5.25V	46	29	23	13	8	5	3.5	2.4	1.6	1.3	0.7
5.40V	45	28	22	13	8	5	3.5	2.4	1.6	1.3	0.7

All mentioned values are average values.

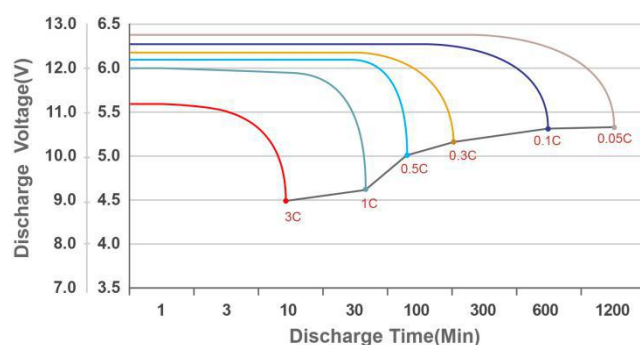


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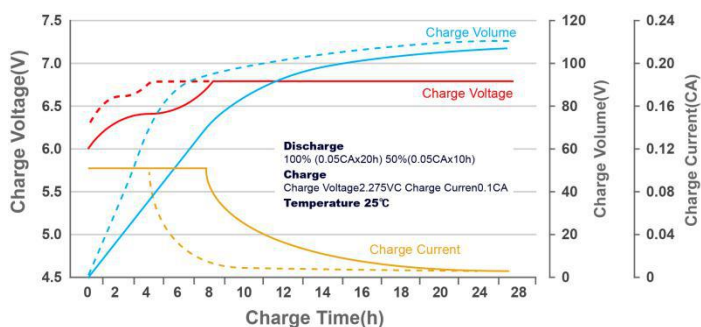
## Temperature and Valid Capacity



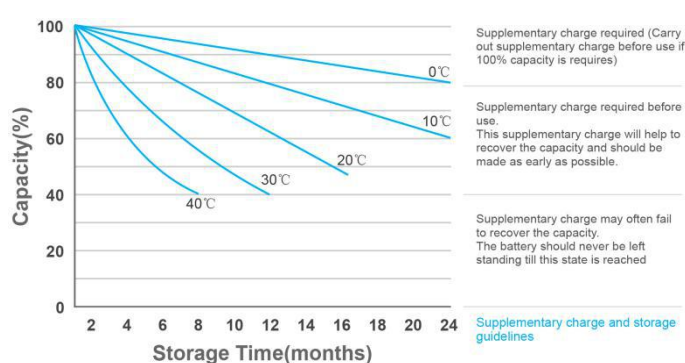
## Discharge Characteristics at Various Rates @25°C/77



## 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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