



# FUJIAN YAHENG POWER TECHNOLOGY GROUP CO.,LTD

## 6GFM70H 12V70AH

6FM70H 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.

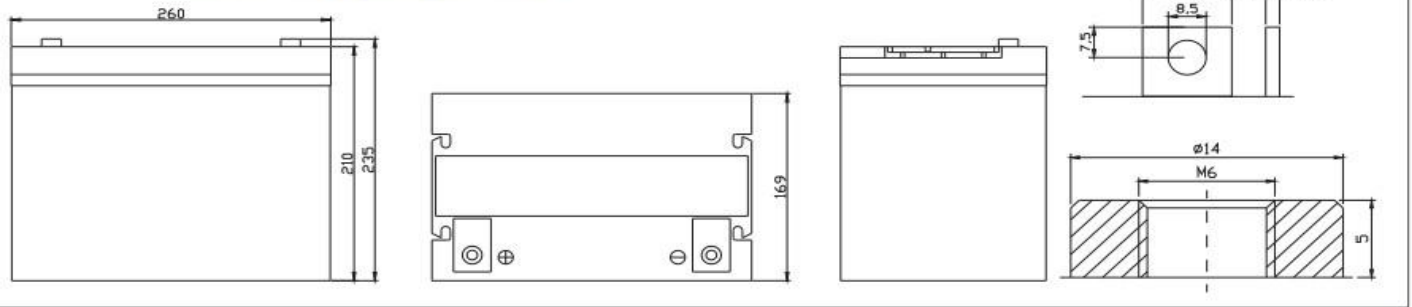


### Specification

Cells Per Unit	6
Voltage Per Unit	12V
Capacity	320W@10min-rate to 1.6V per cell @ 25°C
Weight	Approx. 23.5kg (Tolerance±3%)
Max. Discharge Current	700A(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	21.0A 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	251.3	185.0	144.2	87.89	48.75	29.15	20.13	16.68	14.04	9.59	7.95	4.24
10.0V	244.0	176.0	141.3	86.38	48.53	28.93	20.05	16.60	13.96	9.51	7.88	4.17
10.2V	236.8	169.8	139.1	84.78	48.08	28.72	19.90	16.52	13.87	9.43	7.80	4.09
10.5V	212.6	156.7	132.4	84.14	47.63	28.50	19.82	16.37	13.71	9.36	7.73	4.01
10.8V	191.9	142.9	122.0	82.70	46.50	27.98	19.28	15.98	13.46	9.20	7.65	3.94
11.1V	163.9	127.7	109.5	77.43	44.18	26.74	18.43	15.21	12.88	8.81	7.42	3.70

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

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	2651	1970	1572	986.3	563.3	343.6	293.6	198.8	167.5	114.5	95.06	50.89
10.0V	2599	1910	1547	974.2	562.0	341.8	239.7	198.5	167.1	114.0	94.46	50.01
10.2V	2569	1860	1530	967.3	557.6	339.7	238.6	198.1	166.5	113.2	93.62	49.08
10.5V	2339	1732	1459	960.6	552.6	337.3	237.7	196.2	164.5	112.3	92.70	48.15
10.8V	2130	1596	1349	945.2	542.4	333.0	231.2	191.8	161.5	110.4	91.78	47.23
11.1V	1871	1443	1214	890.3	519.2	320.6	221.2	182.5	154.6	105.7	89.03	44.45

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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