



# FUJIAN YAHENG POWER TECHNOLOGY GROUP CO.,LTD



## 6GFM200 12V200AH

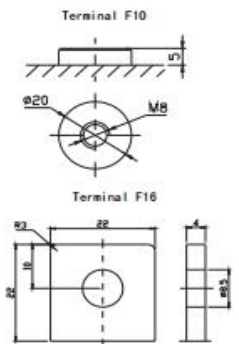
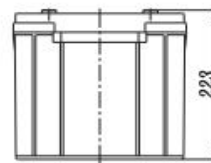
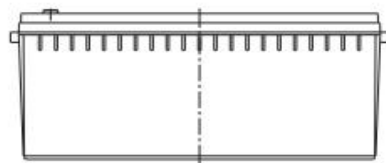
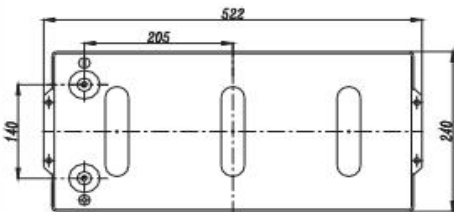
6GFM200 is a general purpose battery with 15 years floating design life, meet with IEC,JIS standard. With heavy duty grid thickness plates, special additives, FM series battery have long and reliable standby service life.

### Specification

Cells Per Unit	6
Voltage Per Unit	12V
Capacity	200AH@10hr-rate to 1.75V per cell @ 25°C
Weight	Approx. 60kg (Tolerance±3%)
Max. Discharge Current	2000A(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	60.0A 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 F12/L20
Container Material	A.B.S. UL94-HB, Flammability resistance of UL94-V2 can be avail upon request

### Dimensions

Unit: mm Dimension: 522(L)×240(W)×223(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	545.12	408.33	344.69	225.33	130.00	77.788	53.766	44.064	36.067	24.844	21.006	11.553
10.0V	529.36	388.53	337.62	221.61	129.40	77.204	53.560	43.860	35.855	24.642	20.804	11.343
10.2V	513.67	374.81	332.31	219.65	128.20	76.619	53.148	43.656	35.643	24.440	20602	11.133
10.5V	461.25	345.86	316.41	214.16	127.00	76.034	52.942	43.248	35.219	24.238	20.400	10.923
10.8V	416.33	315.39	291.66	204.76	124.00	74.669	51.500	42.228	34.582	23.834	20.198	10.713
11.1V	355.48	281.87	261.61	191.83	117.80	71.355	49.234	40.188	33.097	22.824	19.592	10.083

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

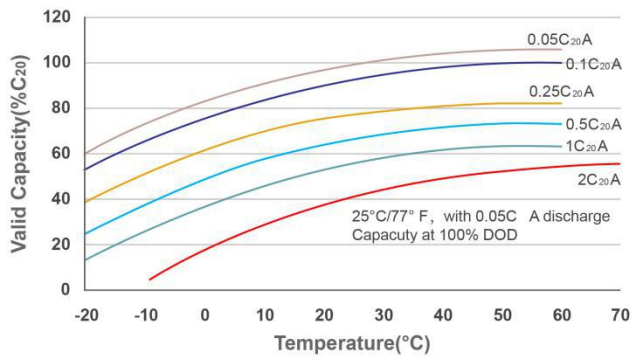
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	5638.2	4348.7	3791.6	2568.8	1502.2	916.87	639.82	525.24	430.28	296.63	251.02	138.52
10.0V	5527.2	4215.5	3730.7	2537.4	1498.6	912.01	640.04	524.57	429.18	295.21	249.44	136.12
10.2V	5464.0	4104.2	3688.7	2519.4	1487.0	906.51	637.24	523.44	427.71	293.28	247.22	133.60
10.5V	4974.3	3821.8	3518.4	2460.7	1473.7	899.92	634.77	518.54	422.62	290.85	244.80	131.08
10.8V	4530.6	3522.9	3252.0	2358.8	1446.5	888.45	917.49	506.74	414.98	286.00	242.38	128.56
11.1V	3979.4	3185.1	2927.4	2315.6	1384.6	855.45	590.81	482.26	397.16	273.89	235.10	120.99

All mentioned values are average values.

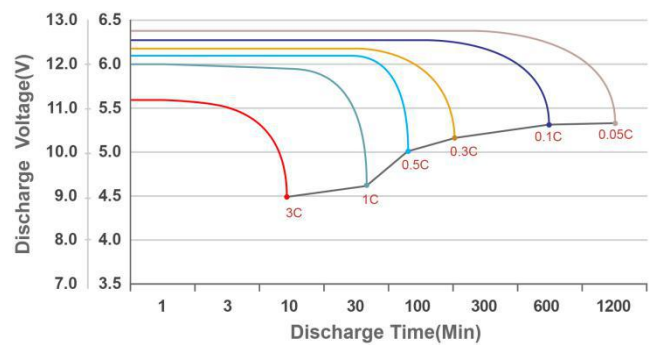


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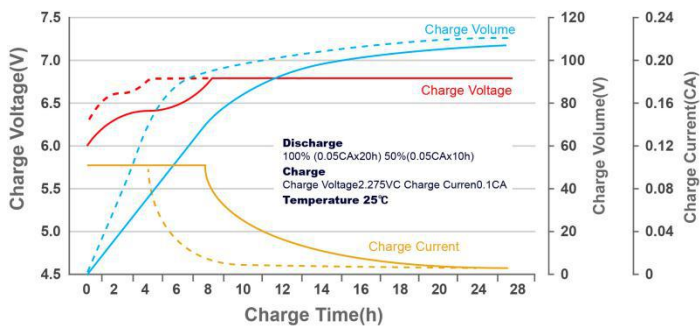
## Temperature and Valid Capacity



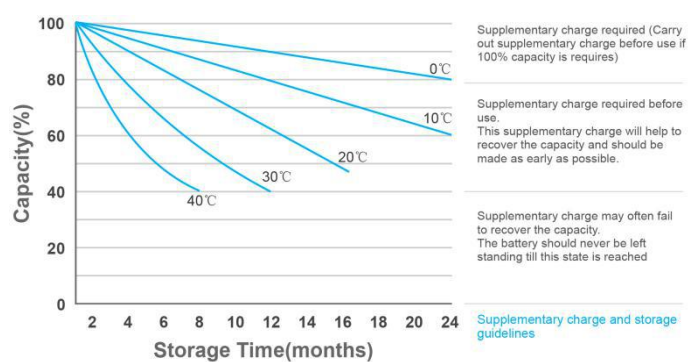
## Discharge Characteristics at Various Rates @25°C/77



## Charge characteristic curve for standby use



## Storage characteristic



## Discharge Current VS. Discharge Voltag

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	$-0.2C * 2h + 2.4 - 2.45V/cell * 24h$ , 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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