



FUJIAN YAHENG POWER TECHNOLOGY GROUP CO.,LTD

6FM8 12V8AH

6FM8 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.

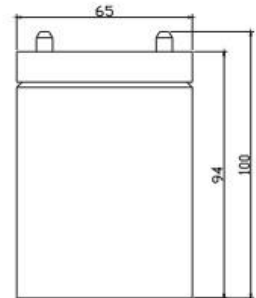
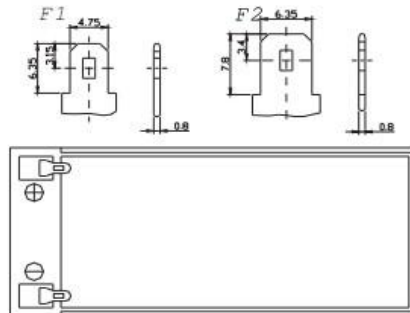
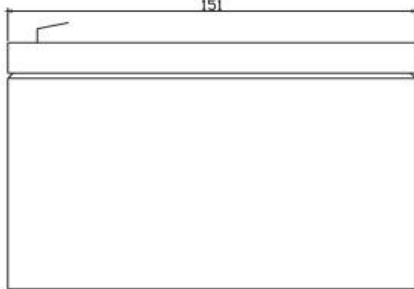


Specification

| | |
|------------------------------------|--|
| Cells Per Unit | 6 |
| Voltage Per Unit | 12V |
| Capacity | 8AH@20hr-rate to 1.75V per cell @ 25°C |
| Weight | Approx. 2.35kg (Tolerance±3%) |
| Max. Discharge Current | 80A(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 | 2.4A 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 at25°C. Please charge batteries before using |
| Terminal | Terminal F2 |
| Container Material | A.B.S. UL94-HB, Flammability resistance of UL94-V2 can be avail upon request |

Dimensions

Unit: mm Dimension: 151(L)×65(W)×100(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 | 32.53 | 21.33 | 16.72 | 9.384 | 5.576 | 3.211 | 2.182 | 1.746 | 1.450 | 0.924 | 0.800 | 0.449 |
| 10.0V | 31.35 | 20.79 | 16.18 | 9.264 | 5.424 | 3.147 | 2.142 | 1.722 | 1.426 | 0.920 | 0.792 | 0.432 |
| 10.2V | 29.51 | 19.76 | 15.73 | 9.122 | 5.373 | 3.113 | 2.123 | 1.705 | 1.410 | 0.912 | 0.779 | 0.425 |
| 10.5V | 26.53 | 18.48 | 14.84 | 8.871 | 5.267 | 3.073 | 2.104 | 1.689 | 1.393 | 0.904 | 0.776 | 0.412 |
| 10.8V | 23.77 | 17.24 | 14.00 | 8.578 | 5.172 | 3.047 | 2.080 | 1.681 | 1.378 | 0.900 | 0.763 | 0.388 |
| 11.1V | 20.80 | 15.80 | 12.92 | 8.252 | 5.033 | 2.925 | 2.039 | 1.666 | 1.365 | 0.893 | 0.751 | 0.381 |

Constant Power Discharge Characteristics: W(25°C)

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 9.60V | 342.2 | 226.8 | 179.0 | 107.4 | 64.75 | 37.47 | 25.51 | 20.67 | 17.17 | 11.06 | 9.580 | 5.379 |
| 10.0V | 333.3 | 222.1 | 176.4 | 106.3 | 63.80 | 37.15 | 25.46 | 20.62 | 17.08 | 11.02 | 9.490 | 5.188 |
| 10.2V | 317.0 | 213.3 | 174.1 | 105.4 | 63.33 | 36.91 | 25.36 | 20.45 | 16.91 | 10.94 | 9.400 | 5.092 |
| 10.5V | 289.4 | 204.5 | 165.0 | 103.2 | 62.47 | 36.61 | 25.26 | 20.26 | 16.71 | 10.84 | 9.302 | 4.948 |
| 10.8V | 261.1 | 191.3 | 155.9 | 100.8 | 61.45 | 36.31 | 24.96 | 20.19 | 16.54 | 10.80 | 9.161 | 4.660 |
| 11.1V | 230.2 | 178.1 | 146.8 | 98.02 | 60.30 | 35.06 | 24.48 | 19.98 | 16.38 | 10.72 | 9.025 | 4.586 |

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 ≤ 0.2C | 0.2C ≤ A ≤ 1.0C | ≥ 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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