

General Series Battery

Gel series is specially designed for power supply under extreme weather condition. It can be designed with AGM or PVC separator, by using strong grids, high purity lead and patented Gel electrolyte, With 15-year design life, it has rapid charging acceptance and floating or cyclic endurance.

6FM150G/12VoIt 150Ah



Application

- ☆Emergency Power System
- ☆Communication equipment
- ☆Telecommunication systems
- ☆Uninterruptible power supplies
- ☆Electric toy car and wheelchairs, etc
- ☆Power tools
- ☆Alarm system
- ☆Marine equipment
- ☆Medical equipment
- ☆Fire and Security System

General Features

- ☆Heavy Duty Grid
- ☆Mechanized assembly
- ☆Non-spillable construction
- ☆High Reliability and Stability
- ☆Sealed and Maintenance-free
- ☆Long Life and low self-discharge design

Construction

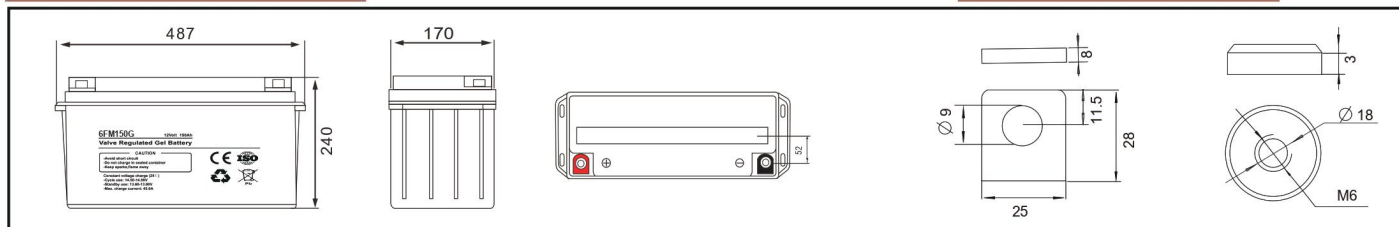
- ☆Positive.....Lead dioxide
- ☆Electrolyte.....Sulfuric acid
- ☆Separator.....AGM or PVC
- ☆Container.....ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
- ☆Negative.....Lead
- ☆Safety Valve.....EPDR
- ☆Terminal.....Copper

Specification

| | | | | | |
|------------------------------------|---|---|-------------------------|-------------------------|--|
| Battery Model | Nominal Voltage | 12V | | | |
| | Rated capacity (10Hour rate) | 150Ah | | | |
| | Cells Per battery | 6 | | | |
| Dimension | Length | Width | Height | Total Height | |
| | 484mm | 170mm | 222mm | 240mm | |
| Approx Weight | 40.50Kg | | | | |
| Internal Resistance | Full charged at 25°C (77°F): Approx 3.2mΩ | | | | |
| Max. discharge current | 1200A(5s) | | | | |
| Floating design life @ 25°C (77°F) | 15 years | | | | |
| Capacity @ 25°C (77°F) | 10Hour rate(15A/10.8V) | 5Hour rate(21.6A/10.5V) | 3Hour rate(28.1A/10.5V) | 1Hour rate(57.7A/10.5V) | |
| | 150Ah | 108.4Ah | 84.4Ah | 57.7Ah | |
| Capacity affected by Temp(10 HR) | 40°C (104°F) | 25°C (77°F) | 0°C (32°F) | -15°C(5°F) | |
| | 102% | 100% | 85% | 65% | |
| Self Discharge @ 25°C (77°F) | After 3 months storage | After 6 months storage | After 12 months storage | | |
| | 93% | 84% | 65% | | |
| Charge method @ 25°C (77°F) | Cycle Use | 14.5-14.9V (Initial charging current less than 45A) | | | |
| | Float Use | 13.6-13.8V | | | |

Outer dimension (mm)

Terminal Type (mm)



Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

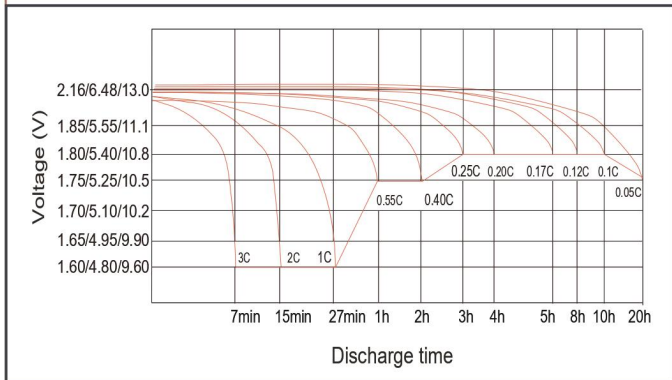
| F.V / TIME | | 5min | 10min | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|------------|---|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|-------|
| 9.60V | A | 540.00 | 330.00 | 262.50 | 172.50 | 90.00 | 52.50 | 39.00 | 31.50 | 26.31 | 17.37 | 16.50 | 8.55 |
| | W | 5724.00 | 3504.60 | 2808.75 | 1863.00 | 981.00 | 572.25 | 429.00 | 346.50 | 289.44 | 192.86 | 183.15 | 96.19 |
| 10.20V | A | 495.00 | 331.25 | 241.25 | 163.75 | 93.00 | 50.37 | 38.25 | 30.00 | 25.81 | 17.10 | 15.75 | 8.40 |
| | W | 5395.50 | 3676.87 | 2689.94 | 1842.19 | 1046.25 | 569.24 | 432.23 | 340.50 | 292.97 | 194.09 | 178.76 | 95.34 |
| 10.50V | A | 459.06 | 316.50 | 225.00 | 158.75 | 90.00 | 49.38 | 37.50 | 28.50 | 25.50 | 16.88 | 15.45 | 8.30 |
| | W | 5049.69 | 3560.63 | 2542.50 | 1809.74 | 1026.00 | 565.34 | 429.38 | 327.75 | 293.25 | 194.06 | 177.68 | 95.39 |
| 10.80V | A | 418.00 | 302.50 | 210.00 | 151.50 | 87.00 | 48.12 | 36.75 | 28.00 | 24.38 | 16.44 | 15.00 | 8.19 |
| | W | 4598.00 | 3448.50 | 2404.50 | 1749.83 | 1004.85 | 555.84 | 426.30 | 326.20 | 283.97 | 191.50 | 174.75 | 95.41 |
| 11.10V | A | 361.50 | 285.00 | 195.00 | 141.00 | 82.50 | 46.88 | 35.25 | 27.50 | 23.31 | 16.00 | 14.63 | 8.10 |
| | W | 4084.95 | 3291.75 | 2262.00 | 1649.70 | 965.25 | 548.44 | 414.19 | 324.50 | 275.09 | 188.80 | 172.58 | 95.58 |

Note: The above datas are average values. (Edition 2017-11)

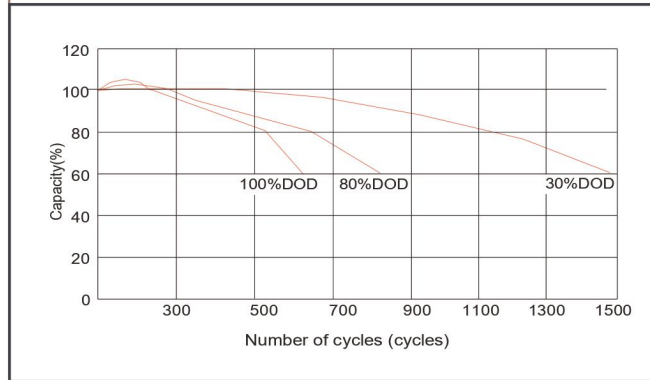


6FM150G/12Volt 150Ah

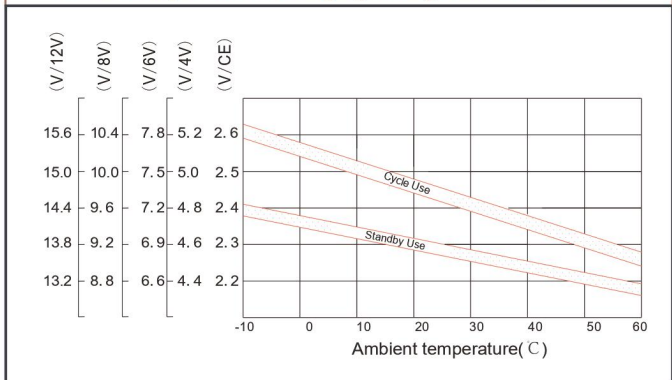
Discharge characteristic Curve



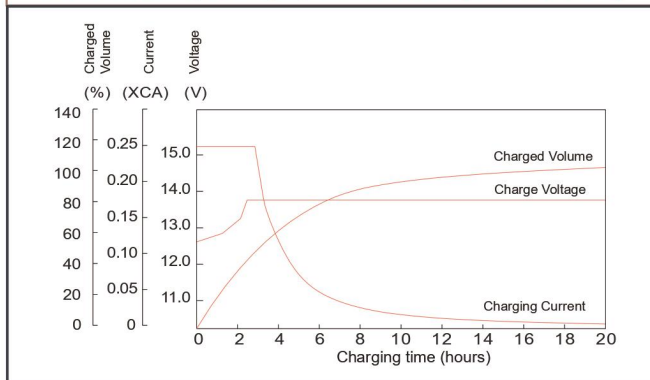
Cycle service life in relation to depth of discharge



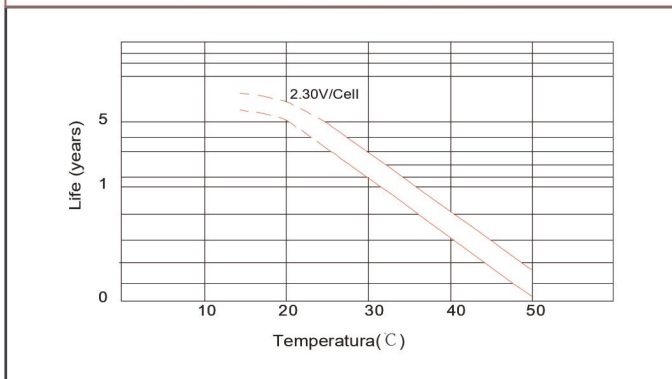
Relationship between charging voltage and temperature



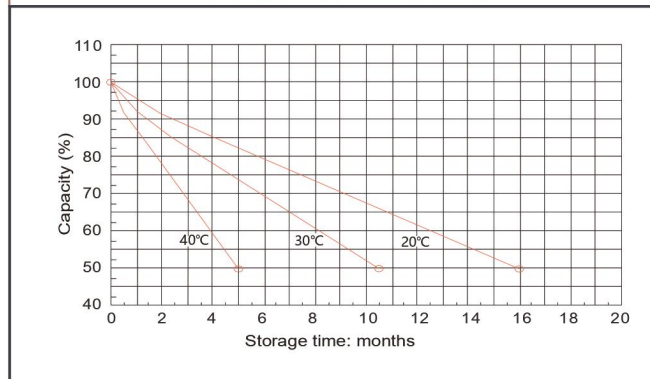
Constant voltage charging characteristic (0.25CA, at 25°C)



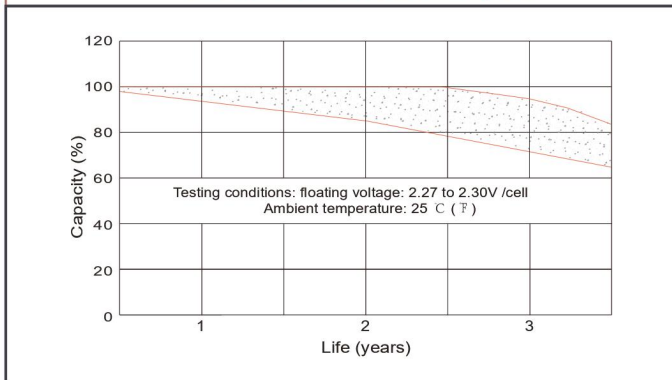
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use

