

6FM100LP-X 12V 100Ah(10hr)

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.

Battery Construction

| Component | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|---------------|
| Raw material | Lead dioxide | Lead | ABS | ABS | Rubber | Copper | Fiberglass | Sulfuric acid |

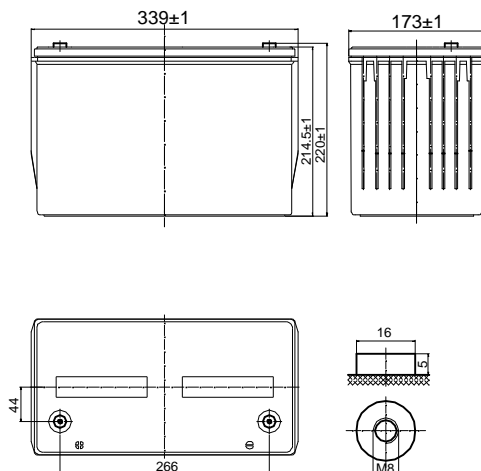
General Features

- Advanced pure lead technology.
- Longer float & cycle life, longer warranty.
- Stronger discharge performance.
- Special design to avoid thermal runaway.
- Excellent consistency and reliability.
- Can be mounted in any orientation.
- Maintenance-free operation.
- Low self discharge.
- Case and cover available in both standard and flame restardant ABS.

Dimensions and Weight

| | |
|--------------------------|--------------|
| Length(mm / inch) | 339 / 13.35 |
| Width(mm / inch) | 173 / 6.81 |
| Height(mm / inch) | 214.5 / 8.44 |
| Total Height(mm / inch) | 220 / 8.66 |
| Approx. Weight(Kg / lbs) | 27.5 / 60.6 |

* Weight deviation: $\pm 3\%$



Performance Characteristics

| | |
|--|------------------------|
| Nominal Voltage | 12V |
| Number of cell | 6 |
| Design Life | 10 years |
| Nominal Capacity 77°F(25°C) | |
| 10 hour rate (10.0A, 10.8V) | 100Ah |
| 5 hour rate (17.5A, 10.5V) | 87.5Ah |
| 1 hour rate (66.2A,9.6V) | 66.2Ah |
| Internal Resistance | |
| Fully Charged battery 77°F(25°C) | $\leq 5.7\text{mOhms}$ |
| Self-Discharge | |
| 3% of capacity declined per month at 20°C(average) | |
| Operating Temperature Range | |
| Discharge | -20~60°C |
| Charge | -10~60°C |
| Storage | -20~60°C |
| Max. Discharge Current 77°F(25°C) | 900A(5s) |
| Short Circuit Current | 2500A |
| Charge Methods: Constant Voltage Charge 77°F(25°C) | |
| Cycle use | 2.40-2.45VPC |
| Maximum charging current | 30A |
| Temperature compensation | -30mV/°C |
| Standby use | 2.20-2.30VPC |
| Temperature compensation | -20mV/°C |

Discharge Constant Current (Amperes at 77°F25°C)

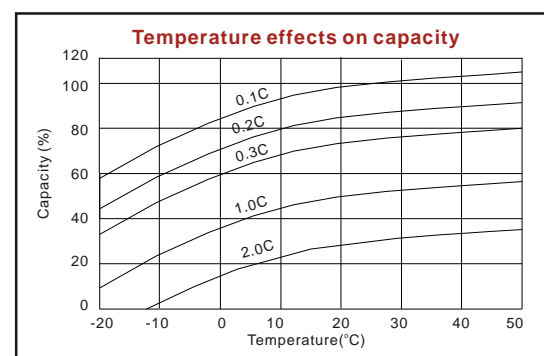
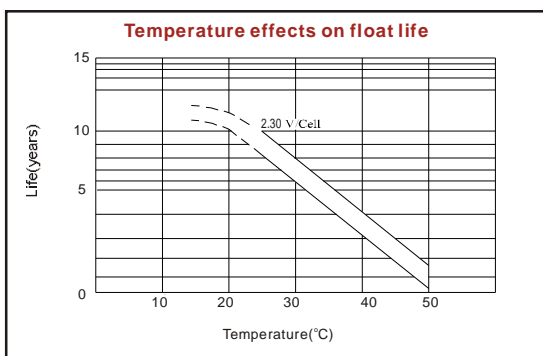
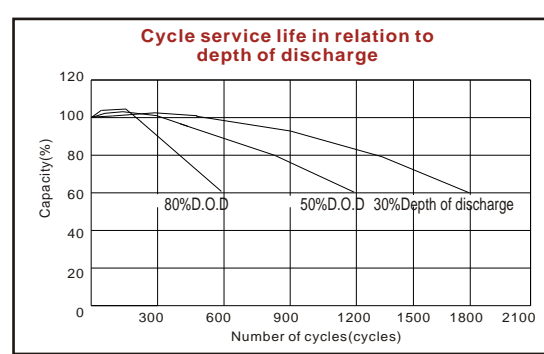
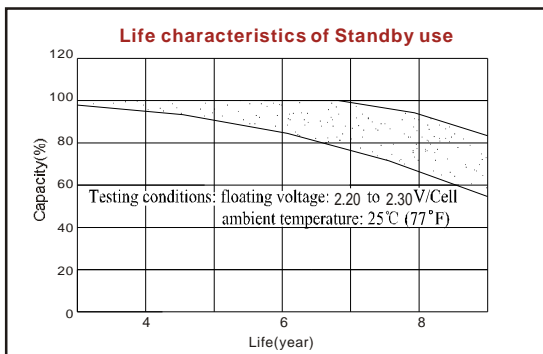
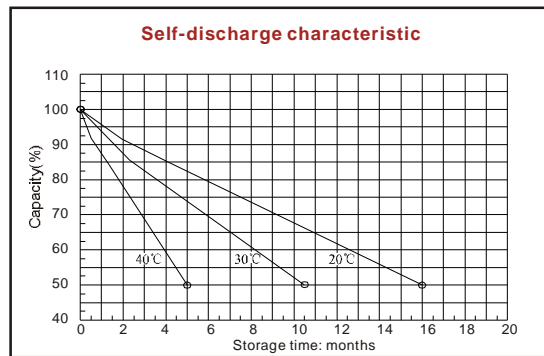
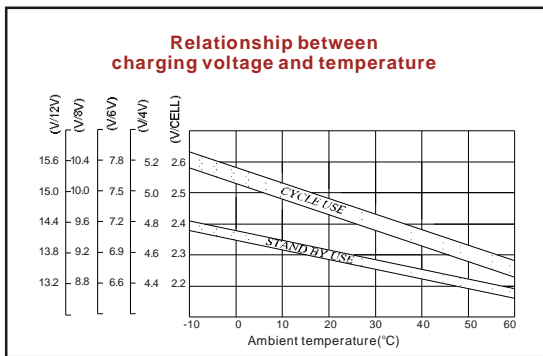
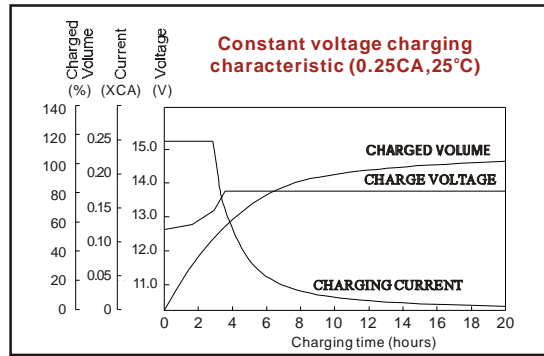
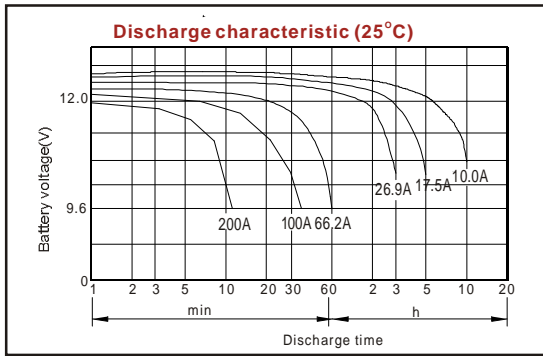
| End Point Volts/Cell | 5min | 10min | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
|----------------------|------|-------|-------|-------|------|------|------|------|------|
| 1.60V | 314 | 229 | 185 | 108 | 66.2 | 27.9 | 19.0 | 10.8 | 5.50 |
| 1.65V | 296 | 221 | 178 | 104 | 62.5 | 27.7 | 18.3 | 10.6 | 5.45 |
| 1.70V | 270 | 200 | 164 | 96.0 | 61.5 | 27.2 | 18.0 | 10.5 | 5.40 |
| 1.75V | 242 | 187 | 153 | 93.0 | 60.5 | 26.9 | 17.5 | 10.3 | 5.35 |
| 1.80V | 221 | 175 | 143 | 91.0 | 57.4 | 25.3 | 17.2 | 10.0 | 5.30 |

Discharge Constant Power (Watts at 77°F25°C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h | 3h | 5h | 10h |
|----------------------|------|-------|-------|-------|-------|-----|------|------|------|
| 1.60V | 547 | 392 | 321 | 199 | 150 | 124 | 52.8 | 35.8 | 20.3 |
| 1.65V | 517 | 379 | 315 | 188 | 146 | 118 | 51.2 | 35.4 | 20.1 |
| 1.70V | 478 | 360 | 299 | 183 | 137 | 114 | 50.9 | 35.0 | 20.0 |
| 1.75V | 441 | 353 | 294 | 177 | 134 | 111 | 49.1 | 34.4 | 19.6 |
| 1.80V | 415 | 329 | 279 | 171 | 131 | 104 | 48.5 | 34.0 | 19.1 |

(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

All data shall be changed without notice, Vision reserves the right to explain and update the information contained hereinto.



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