

6FM230D-X 12V 230Ah(20hr)

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

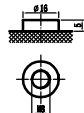
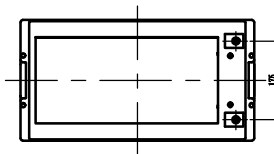
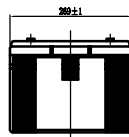
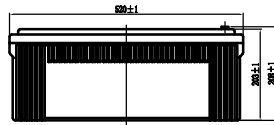
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|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|---------------|
| Component | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
|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

General Features

- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

Dimensions and Weight

| | |
|--------------------------|--------------|
| Length(mm / inch) | 520 / 20.5 |
| Width(mm / inch) | 269 / 10.6 |
| Height(mm / inch) | 203 / 8.0 |
| Total Height(mm / inch) | 208 / 8.2 |
| Approx. Weight(Kg / lbs) | 72.6 / 160.1 |



Performance Characteristics

| | |
|--|------------|
| Nominal Voltage | 12V |
| Number of cell | 6 |
| Design Life | 10 years |
| Nominal Capacity 77°F(25°C) | |
| 20 hour rate (11.5A, 10.8V) | 230Ah |
| 10 hour rate (21.0A, 10.8V) | 210Ah |
| 5 hour rate (40.3A, 10.5V) | 201.5Ah |
| 1 hour rate (150A, 9.6V) | 150Ah |
| Internal Resistance | |
| Fully Charged battery 77°F(25°C) | 2.8mOhms |
| 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) | 1100A(5s) |
| Short Circuit Current | 4300A |
| Charge Methods: Constant Voltage Charge 77°F(25°C) | |
| Cycle use | 14.4-14.7V |
| Maximum charging current | 63A |
| Temperature compensation | -30mV/°C |
| Standby use | 13.6-13.8V |
| Temperature compensation | -20mV/°C |

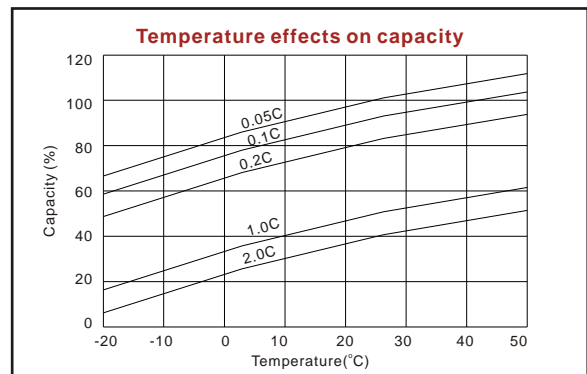
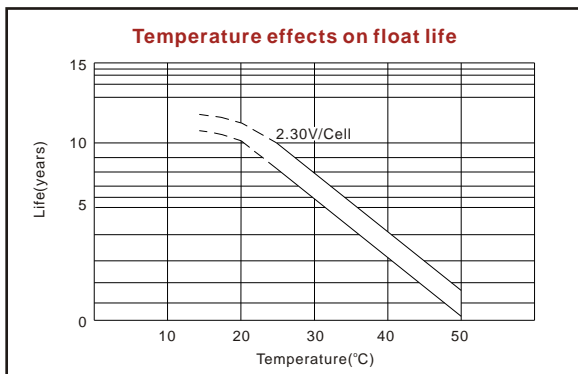
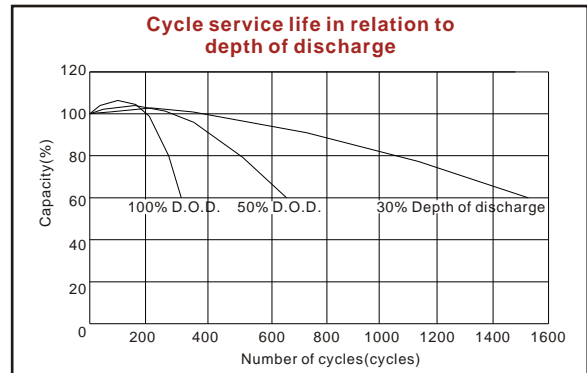
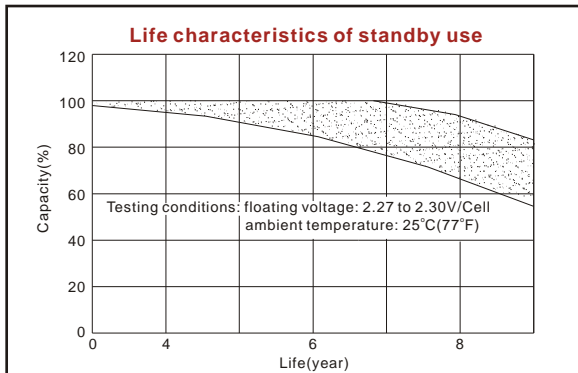
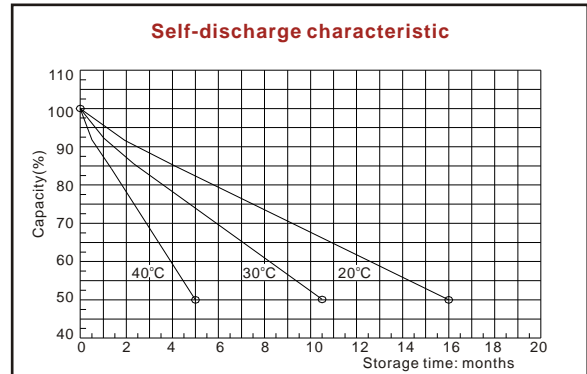
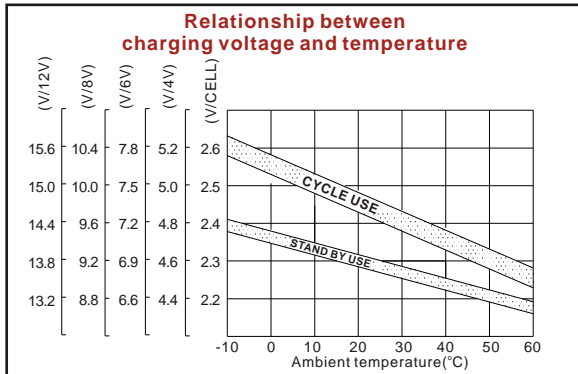
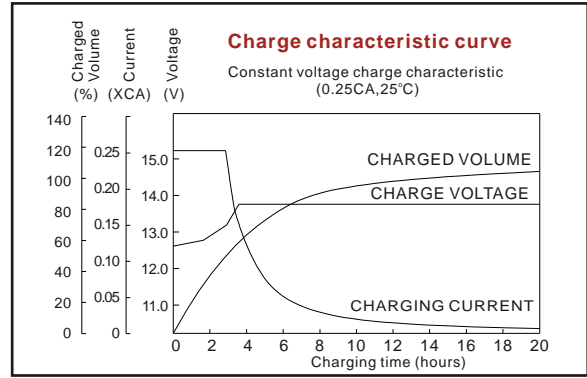
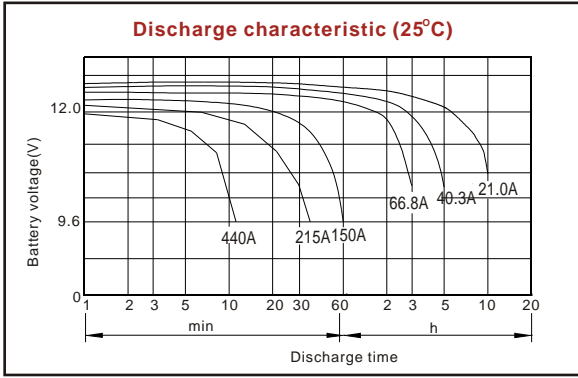
Discharge Constant Current (Amperes at 77°F25°C)

| End Point Volts/Cell | 10min | 15min | 30min | 45min | 1h | 3h | 5h | 10h | 20h |
|----------------------|-------|-------|-------|-------|-----|------|------|------|------|
| 1.60V | 523 | 395 | 232 | 180 | 150 | 68.5 | 41.0 | 21.8 | 9.9 |
| 1.65V | 506 | 384 | 231 | 176 | 147 | 68.2 | 40.8 | 21.6 | 10.2 |
| 1.70V | 475 | 373 | 230 | 174 | 145 | 67.8 | 40.6 | 21.4 | 10.6 |
| 1.75V | 442 | 362 | 226 | 172 | 144 | 66.8 | 40.3 | 21.2 | 11.1 |
| 1.80V | 413 | 350 | 223 | 170 | 142 | 66.5 | 40.0 | 21.0 | 11.5 |

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

| End Point Volts/Cell | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h |
|----------------------|-------|-------|-------|-------|-----|-----|-----|------|
| 1.60V | 930 | 640 | 439 | 341 | 286 | 172 | 131 | 86.7 |
| 1.65V | 905 | 630 | 436 | 339 | 284 | 171 | 130 | 86.4 |
| 1.70V | 870 | 624 | 432 | 327 | 280 | 169 | 129 | 86.1 |
| 1.75V | 825 | 610 | 429 | 325 | 278 | 168 | 128 | 85.8 |
| 1.80V | 770 | 600 | 425 | 322 | 275 | 166 | 126 | 85.4 |

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



ISO9001:2000

MH25860

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