

6FM200D-X 12V 200Ah(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

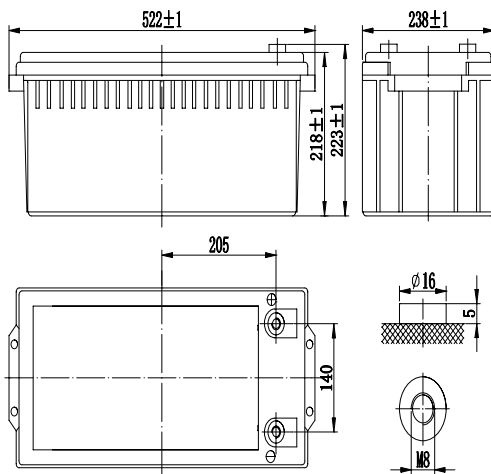
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|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|---------------|
| Component | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
| 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) | 522 / 20.55 |
| Width(mm / inch) | 238 / 9.37 |
| Height(mm / inch) | 218 / 8.58 |
| Total Height(mm / inch) | 223 / 8.78 |
| Approx. Weight(Kg / lbs) | 65 / 143.3 |



Performance Characteristics

| | |
|--|------------|
| Nominal Voltage | 12V |
| Number of cell | 6 |
| Design Life | 10 years |
| Nominal Capacity 77°F(25°C) | |
| 10 hour rate (20.0A, 10.8V) | 200Ah |
| 5 hour rate (34.9A, 10.5V) | 174.5Ah |
| 1 hour rate (130A, 9.6V) | 130Ah |
| Internal Resistance | |
| Fully Charged battery 77°F(25°C) | 3.5mOhms |
| 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) | 1000A(5s) |
| Short Circuit Current | 3300A |
| Charge Methods: Constant Voltage Charge 77°F(25°C) | |
| Cycle use | 14.4-14.7V |
| Maximum charging current | 60A |
| Temperature compensation | -30mV/°C |
| Standby use | 13.6-13.8V |
| Temperature compensation | -20mV/°C |

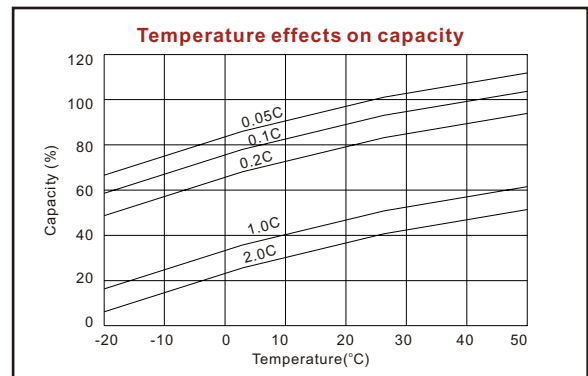
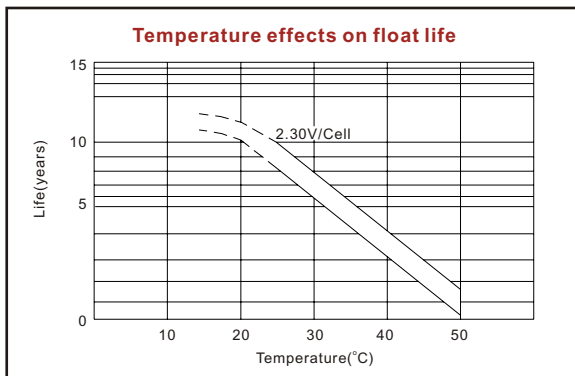
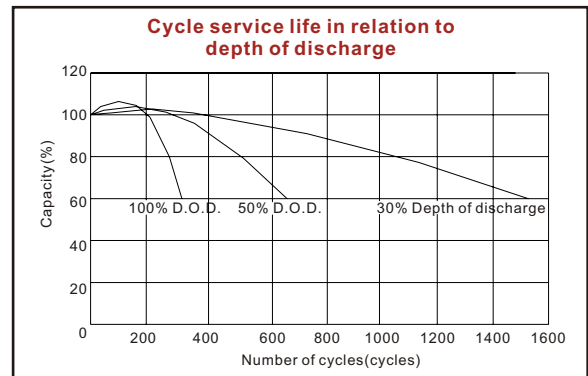
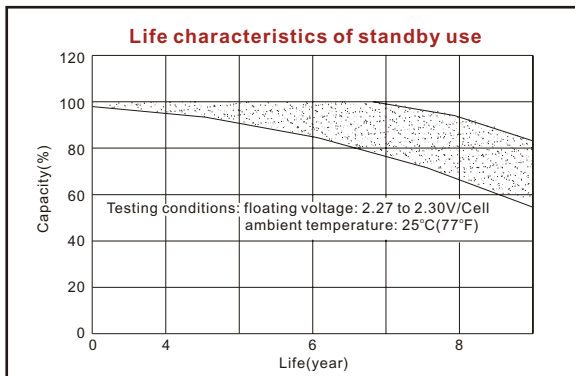
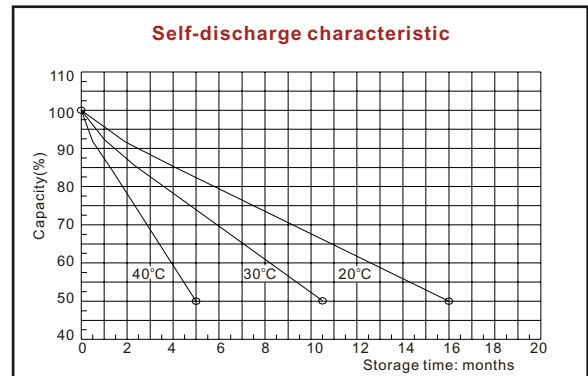
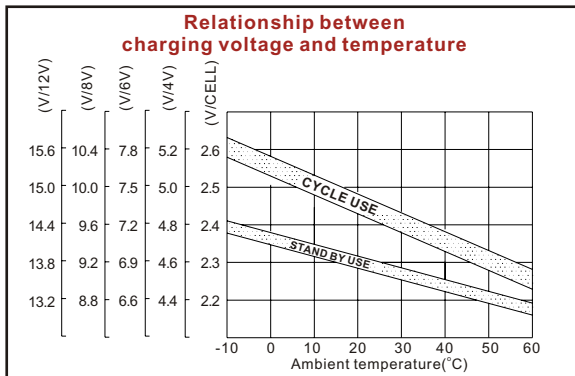
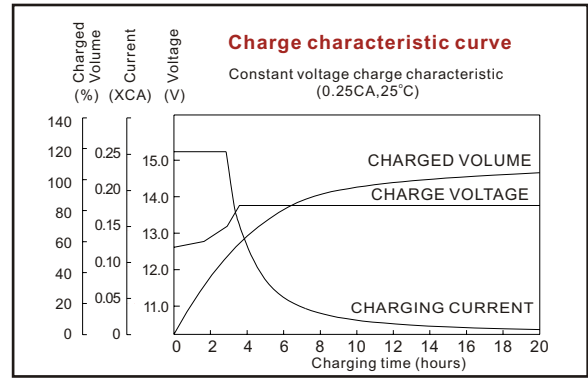
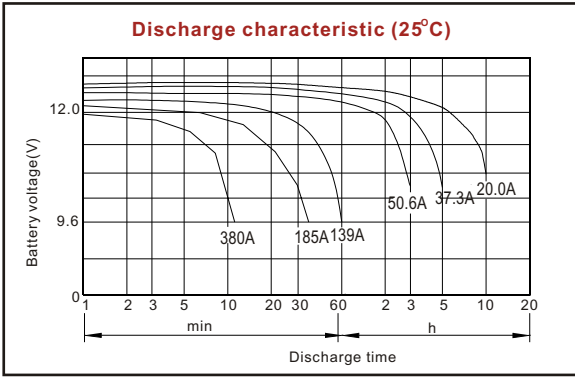
Discharge Constant Current (Amperes at 77°F25°C)

| End Point Volts/cell | 5min | 10min | 15min | 30min | 1h | 3h | 5h | 10h | 20h | 100h |
|----------------------|------|-------|-------|-------|-----|------|------|------|------|------|
| 1.60V | 554 | 437 | 357 | 212 | 139 | 54.1 | 39.6 | 21.7 | 11.1 | 2.49 |
| 1.65V | 511 | 412 | 336 | 203 | 136 | 52.8 | 38.9 | 21.3 | 11.0 | 2.46 |
| 1.70V | 473 | 388 | 314 | 196 | 133 | 51.8 | 38.1 | 20.9 | 10.8 | 2.43 |
| 1.75V | 443 | 363 | 294 | 189 | 129 | 50.6 | 37.3 | 20.4 | 10.7 | 2.40 |
| 1.80V | 383 | 333 | 273 | 182 | 126 | 49.2 | 36.5 | 20.0 | 10.5 | 2.36 |

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

| End Point Volts/cell | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 100h |
|----------------------|------|-------|-------|-------|-------|-----|-----|------|------|------|
| 1.60V | 925 | 765 | 618 | 404 | 290 | 267 | 147 | 105 | 75.6 | 4.99 |
| 1.65V | 876 | 727 | 598 | 389 | 283 | 262 | 144 | 103 | 75.0 | 4.96 |
| 1.70V | 827 | 689 | 579 | 374 | 278 | 258 | 141 | 102 | 74.3 | 4.92 |
| 1.75V | 778 | 648 | 559 | 359 | 272 | 252 | 138 | 100 | 73.8 | 4.88 |
| 1.80V | 726 | 616 | 526 | 344 | 266 | 247 | 134 | 99.4 | 73.2 | 4.84 |

(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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