

EB12-115 12V 115Ah(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

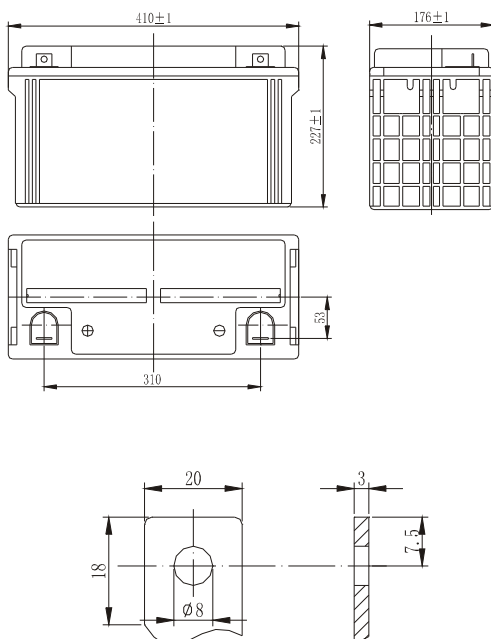
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|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|---------------|
| Component | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
| 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) | 410 / 16.14 |
| Width(mm / inch) | 176 / 6.93 |
| Height(mm / inch) | 227 / 8.94 |
| Total Height(mm / inch) | 227 / 8.94 |
| Approx. Weight(Kg / lbs) | 38 / 83.8 |



Performance Characteristics

| | |
|--|------------|
| Nominal Voltage | 12V |
| Number of cell | 6 |
| Design Life | 12 years |
| Nominal Capacity 68°F(20°C) | |
| 10 hour rate (11.5A, 1.8V/Cell) | 115Ah |
| 5 hour rate (20.6A, 1.8V/Cell) | 103Ah |
| 1 hour rate (78.2A, 1.6V/Cell) | 78.2Ah |
| Internal Resistance | |
| Fully Charged battery 68°F(20°C) | 4.3mOhms |
| 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 68°F(20°C) | 950A(5s) |
| Charge Methods: Constant Voltage Charge 77°F(25°C) | |
| Cycle use | 14.4~14.7V |
| Maximum charging current | 34.5A |
| Temperature compensation | -30mV/°C |
| Standby use | 13.6~13.8V |
| Temperature compensation | -20mV/°C |

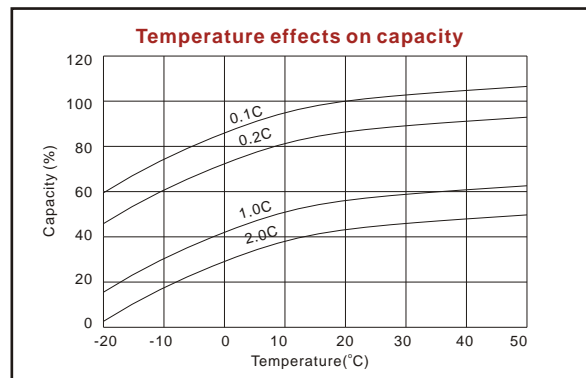
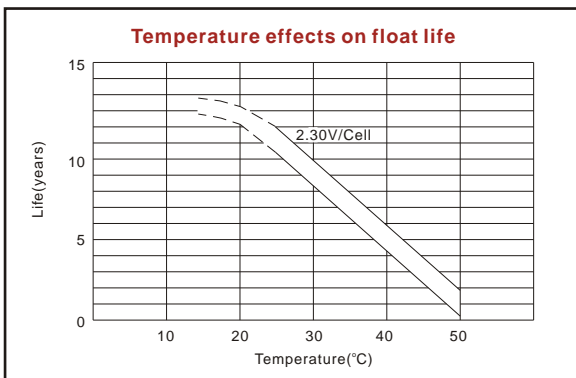
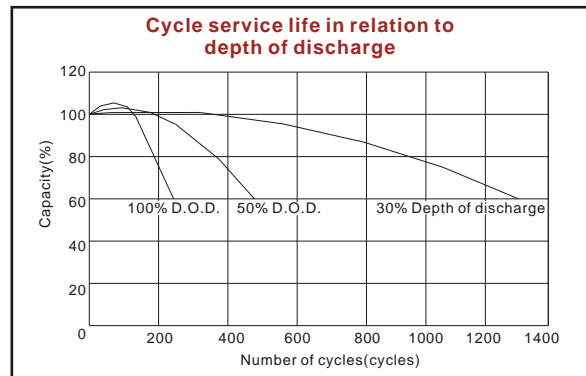
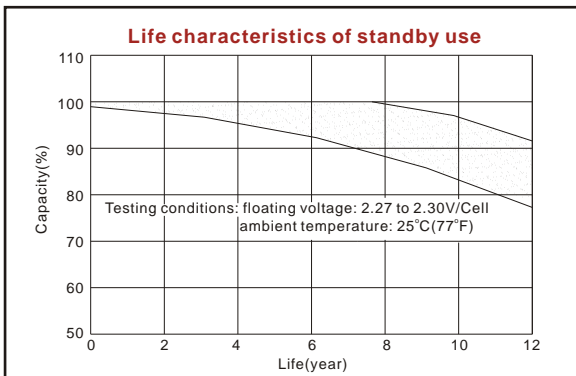
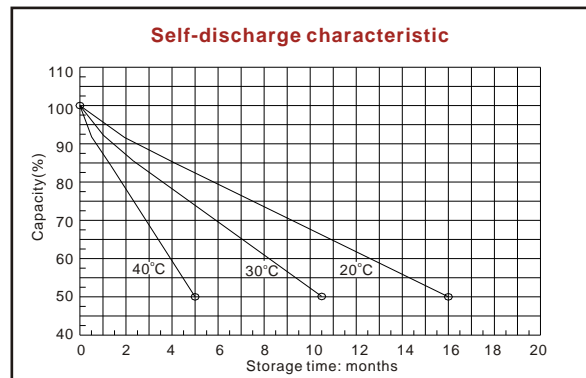
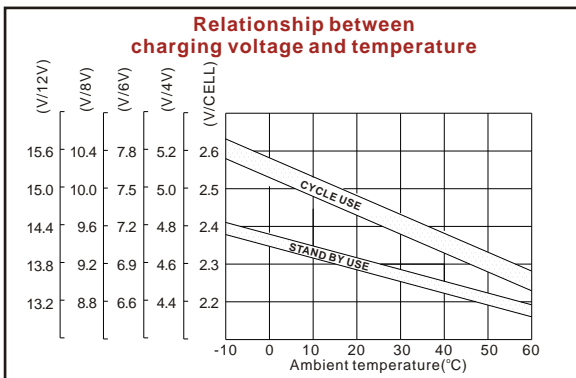
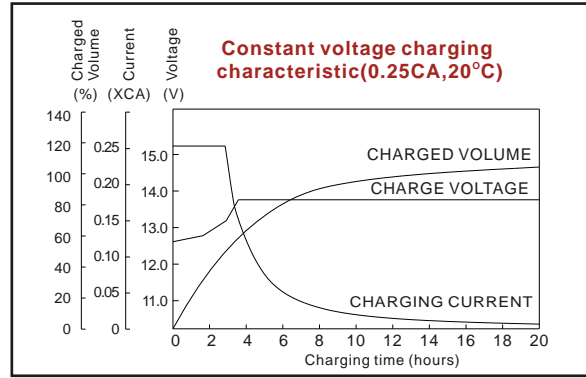
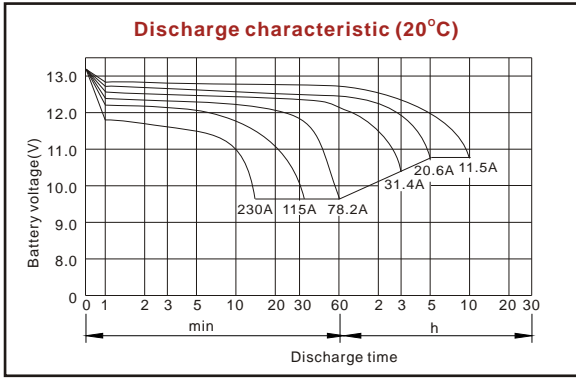
Discharge Constant Current (Amperes at 68°F20°C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 1h | 3h | 5h | 10h |
|----------------------|------|-------|-------|-------|------|------|------|------|
| 1.60V | 365 | 270 | 227 | 127 | 78.2 | 33.1 | 22.1 | 12.0 |
| 1.65V | 342 | 250 | 215 | 122 | 76.1 | 32.8 | 21.8 | 11.9 |
| 1.70V | 322 | 241 | 200 | 118 | 73.8 | 32.0 | 21.4 | 11.7 |
| 1.75V | 299 | 220 | 188 | 115 | 71.6 | 31.4 | 21.0 | 11.6 |
| 1.80V | 265 | 202 | 175 | 110 | 69.4 | 30.6 | 20.6 | 11.5 |
| 1.85V | 227 | 178 | 159 | 105 | 66.8 | 29.4 | 20.0 | 11.5 |
| 1.90V | 198 | 158 | 130 | 98 | 64.4 | 28.2 | 19.2 | 11.4 |

Discharge Constant Power (Watts at 68°F20°C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h | 3h | 5h |
|----------------------|------|-------|-------|-------|-------|-----|------|------|
| 1.60V | 657 | 486 | 408 | 229 | 197 | 148 | 62.2 | 41.6 |
| 1.65V | 629 | 460 | 394 | 224 | 181 | 143 | 61.7 | 40.9 |
| 1.70V | 602 | 448 | 370 | 220 | 176 | 139 | 60.5 | 40.4 |
| 1.75V | 568 | 418 | 357 | 217 | 172 | 136 | 59.7 | 39.9 |
| 1.80V | 513 | 389 | 337 | 212 | 169 | 134 | 59.4 | 39.6 |
| 1.85V | 445 | 348 | 312 | 206 | 167 | 132 | 58.2 | 39.1 |
| 1.90V | 397 | 318 | 262 | 196 | 163 | 129 | 56.7 | 38.5 |

(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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