

CT12-100SX-CFR 12V 100Ah(10hr)

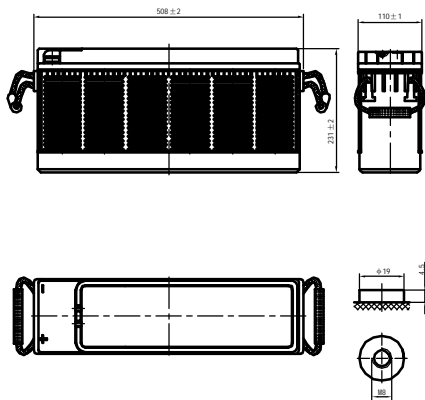
The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive 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

- 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.
- With VO Flame retardants cover and HB ABS container



Performance Characteristics

| | | | | |
|-------------------------------|---|-------------------|-------------------|--------------|
| Battery model | CT12-100SX-CFR | | | |
| Nominal voltage | 12V | | | |
| Number of cell | 6 | | | |
| Capacity (25°C) | 10hR(10 A, 10.8V) | 5hR(18.1A, 10.5V) | 1hR(70.4A, 9.60V) | |
| | 100Ah | 90.5Ah | 70.4Ah | |
| Dimensions Max. | Length | Width | Height | Total Height |
| | 508 ± 2 mm | 110 ± 2 mm | 231 ± 2 mm | 231 ± 2 mm |
| Approx. weight | 32.5Kg (71.6 lbs) | | | |
| Internal resistance | Full charged at 20°C: 6.3mOhms | | | |
| Self discharge | 3% of capacity declined per month at 20°C (average) | | | |
| Operating temperature range | Discharge | Charge | Storage | |
| | -20~60°C | -10~60°C | -20~60°C | |
| Max. discharge current (20°C) | 900A (5s) | | | |
| Short circuit current | 1700A | | | |

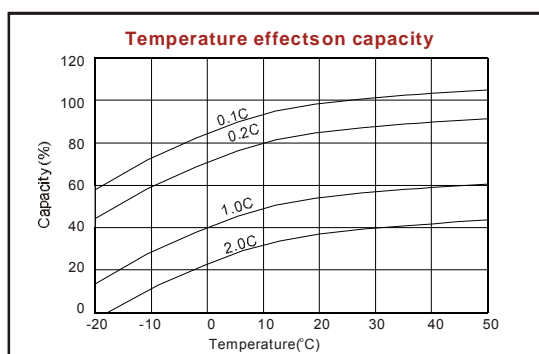
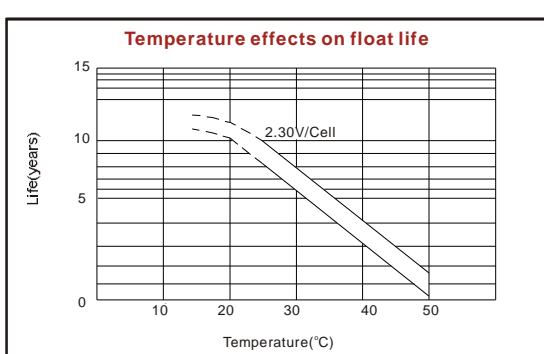
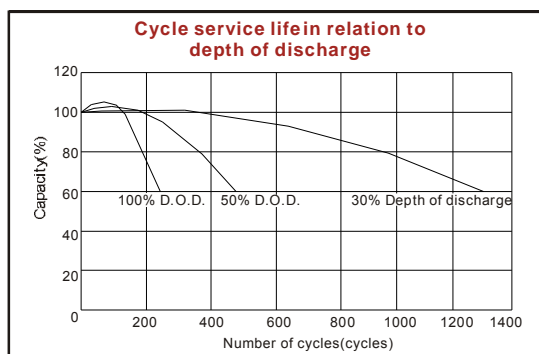
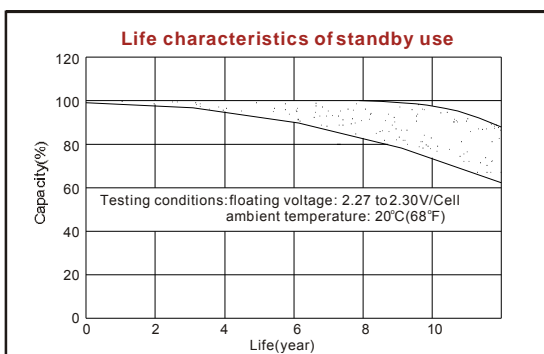
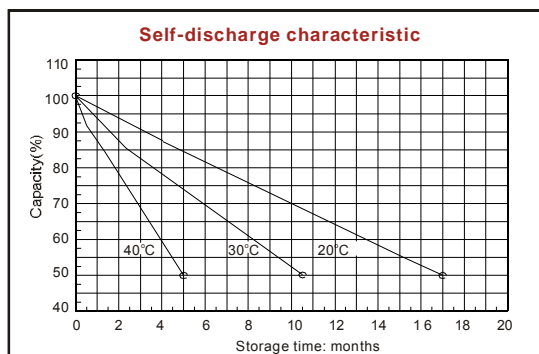
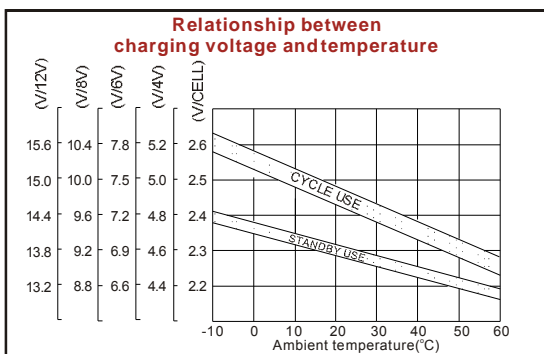
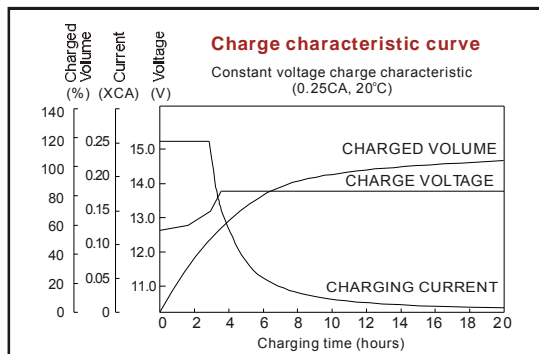
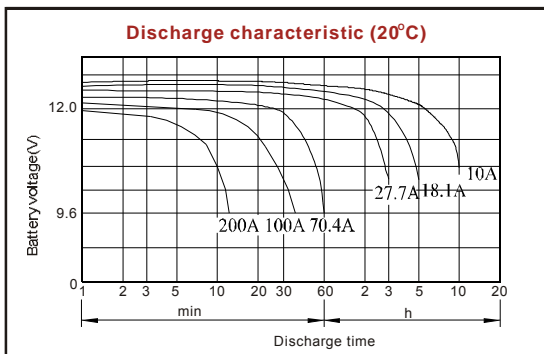
Discharge Constant Current (Amperes at 77°F25°C)

| End Point Volts/Cell | 10min | 15min | 30min | 45min | 1h | 3h | 5h | 10h |
|----------------------|-------|-------|-------|-------|------|------|------|------|
| 1.60V | 218 | 176 | 115 | 78.8 | 62.5 | 27.8 | 18.5 | 10.1 |
| 1.65V | 201 | 165 | 111 | 76.4 | 60.5 | 27.1 | 18.4 | 10.1 |
| 1.70V | 185 | 154 | 107 | 73.9 | 58.5 | 26.4 | 18.3 | 10.0 |
| 1.75V | 169 | 143 | 102 | 71.6 | 56.5 | 25.7 | 18.1 | 10.0 |
| 1.80V | 153 | 132 | 98 | 68 | 54.1 | 24.6 | 18.0 | 10.0 |

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

| End Point Volts/Cell | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h |
|----------------------|-------|-------|-------|-------|-----|------|------|------|
| 1.60V | 380 | 319 | 223 | 145 | 116 | 66.9 | 52.3 | 36.5 |
| 1.65V | 358 | 303 | 214 | 141 | 113 | 65.4 | 51.2 | 36.1 |
| 1.70V | 337 | 286 | 205 | 138 | 110 | 63.8 | 50.1 | 35.8 |
| 1.75V | 316 | 270 | 196 | 134 | 107 | 62.2 | 49.1 | 35.5 |
| 1.80V | 294 | 254 | 187 | 128 | 103 | 59.9 | 47.3 | 34.6 |

(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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