

CP12240D 12V 24Ah(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

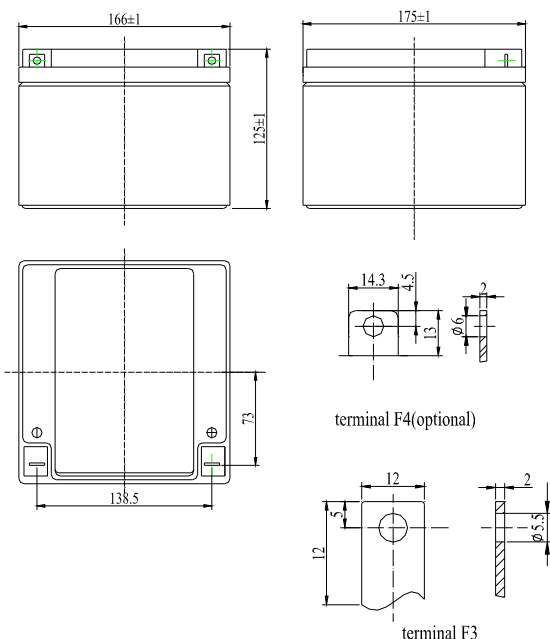
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|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|---------------|
| Component | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
| 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).....166 / 6.54
 Width(mm / inch).....175 / 6.89
 Height(mm / inch).....125 / 4.92
 Total Height(mm / inch).....125 / 4.92
 Approx. Weight(Kg / lbs).....8.6 / 19



Performance Characteristics

Nominal Voltage12V
 Number of cell6
 Design Life3-5 years
 Nominal Capacity 77°F(25°C)
 20 hour rate (1.2A, 10.5V)..... 24Ah
 10 hour rate (2.3A, 10.5V)..... 23Ah
 5 hour rate (3.9A, 10.5V)..... 19.5Ah
 1 hour rate (15.2A, 9.6V)..... 15.2Ah
 Internal Resistance
 Fully Charged battery 77°F(25°C)..... 12mOhms
 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).....300A(5s)
 Short Circuit Current.....1200A
 Charge Methods: Constant Voltage Charge 77°F(25°C)
 Cycle use.....14.5-14.9V
 Maximum charging current.....9.6A
 Temperature compensation.....-30mV/°C
 Standby use.....13.6-13.8V
 Temperature compensation.....-20mV/°C

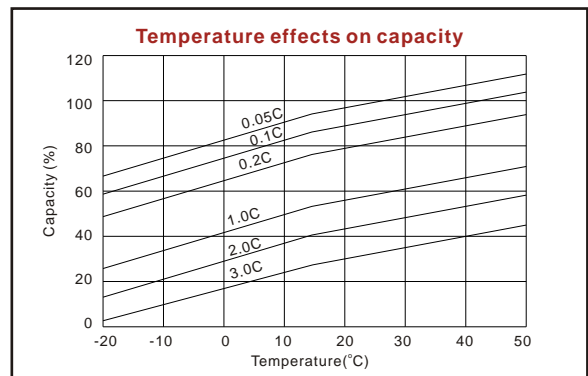
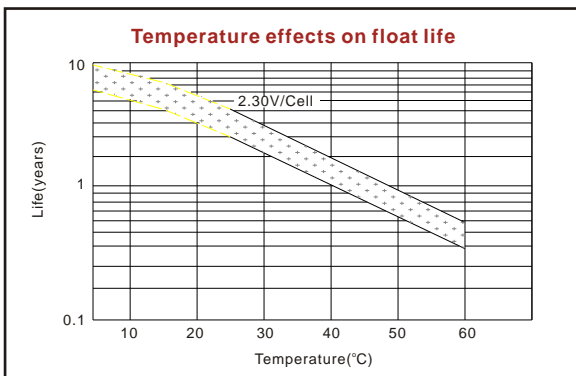
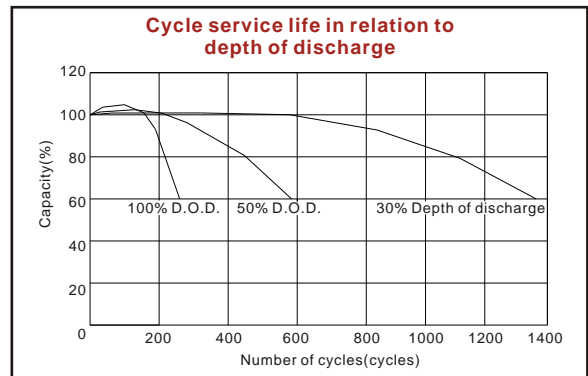
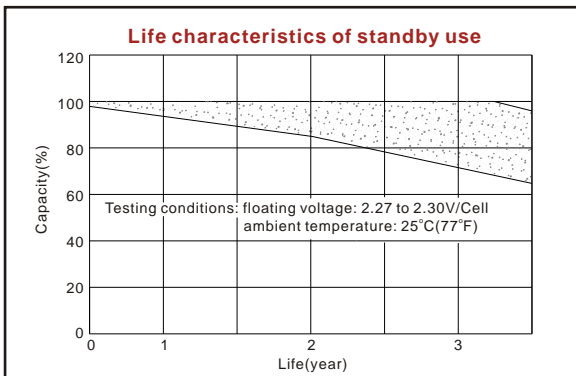
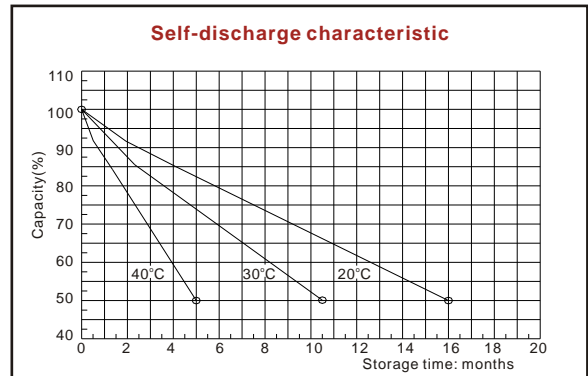
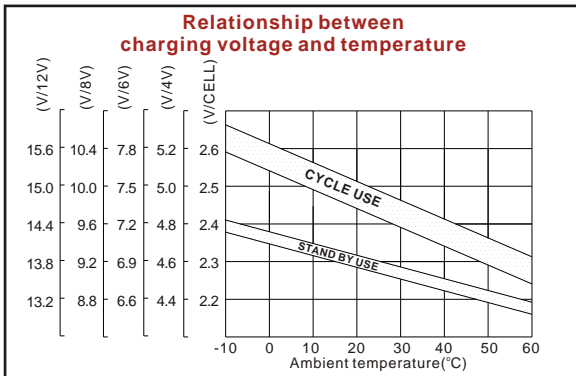
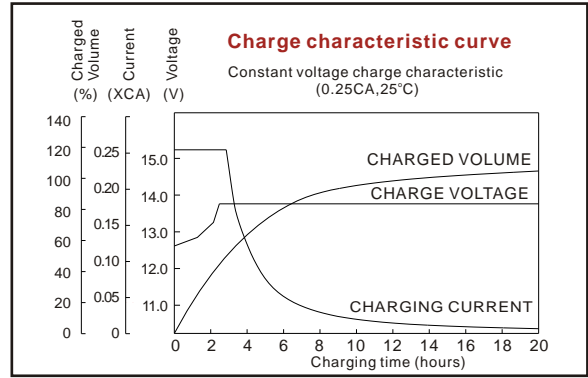
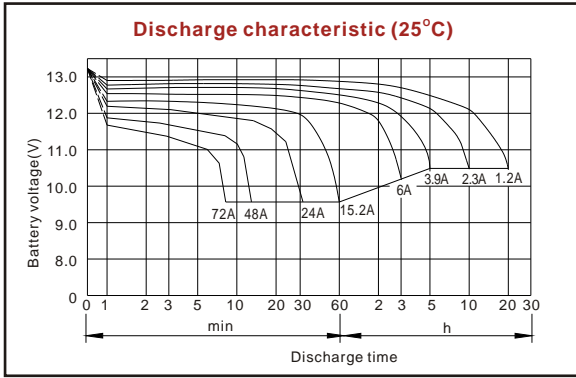
Discharge Constant Current (Amperes at 77°F25°C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 1h | 3h | 5h | 10h | 20h | 100h |
|----------------------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1.60V | 88.40 | 59.50 | 44.60 | 26.80 | 15.20 | 6.47 | 4.34 | 2.42 | 1.23 | 0.27 |
| 1.65V | 83.80 | 56.60 | 42.70 | 25.70 | 14.60 | 6.26 | 4.23 | 2.38 | 1.22 | 0.27 |
| 1.70V | 78.90 | 53.70 | 40.60 | 24.60 | 14.00 | 6.00 | 4.11 | 2.34 | 1.21 | 0.27 |
| 1.75V | 74.10 | 50.60 | 39.20 | 23.40 | 13.40 | 5.86 | 3.90 | 2.30 | 1.20 | 0.27 |
| 1.80V | 69.10 | 47.70 | 36.40 | 22.20 | 12.80 | 5.54 | 3.83 | 2.27 | 1.18 | 0.27 |

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

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 100h |
|----------------------|--------|--------|-------|-------|-------|-------|-------|-------|------|------|
| 1.60V | 172.00 | 114.00 | 83.70 | 51.70 | 38.00 | 30.10 | 18.80 | 12.90 | 8.29 | 0.54 |
| 1.65V | 161.00 | 107.00 | 78.90 | 49.20 | 36.80 | 28.80 | 18.20 | 12.60 | 8.14 | 0.54 |
| 1.70V | 150.00 | 101.00 | 74.20 | 46.60 | 34.70 | 27.40 | 17.50 | 12.10 | 7.96 | 0.54 |
| 1.75V | 140.00 | 93.70 | 69.80 | 43.80 | 32.70 | 26.00 | 16.90 | 11.60 | 7.77 | 0.54 |
| 1.80V | 129.00 | 87.20 | 65.40 | 41.10 | 30.60 | 24.70 | 16.20 | 10.90 | 7.59 | 0.54 |

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



ISO9001:2000

MH25860

CE ETS EMC
G4M19906-9202-E-16

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