

CP1240S 12V 4Ah(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

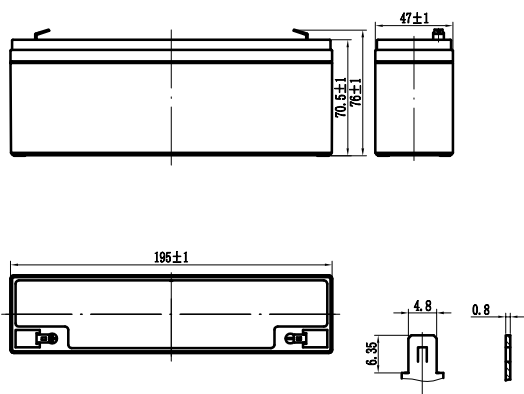
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|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|---------------|
| Component | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
| 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) | 195 / 7.39 |
| Width(mm / inch) | 47 / 1.85 |
| Height(mm / inch) | 70.5 / 2.78 |
| Total Height(mm / inch) | 76 / 2.99 |
| Approx. Weight(Kg / lbs) | 1.62 / 3.57 |



Performance Characteristics

| | |
|--|------------|
| Nominal Voltage | 12V |
| Number of cell | 6 |
| Design Life | 3-5 years |
| Nominal Capacity 77°F(25°C) | |
| 20 hour rate (0.20A, 10.5V) | 4Ah |
| 10 hour rate (0.39A, 10.5V) | 3.9Ah |
| 5 hour rate (0.76A, 10.5V) | 3.8Ah |
| 1 hour rate (3.21A, 9.6V) | 3.21Ah |
| Internal Resistance | |
| Fully Charged battery 77°F(25°C) | 19mOhms |
| 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) | 60A(5s) |
| Short Circuit Current | 200A |
| Charge Methods: Constant Voltage Charge 77°F(25°C) | |
| Cycle use | 14.5-14.9V |
| Maximum charging current | 2A |
| Temperature compensation | -30mV/°C |
| Standby use | 13.6-13.8V |
| Temperature compensation | -20mV/°C |

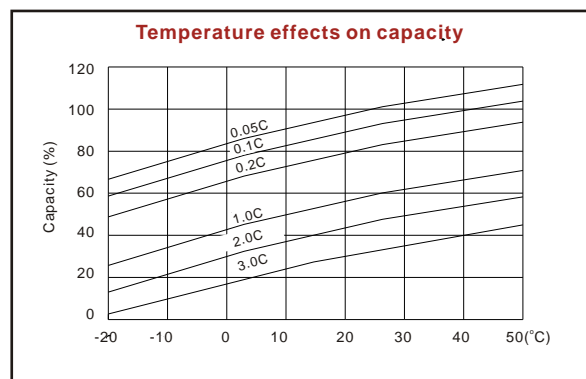
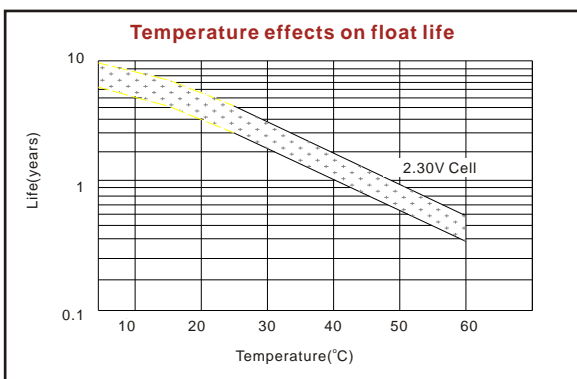
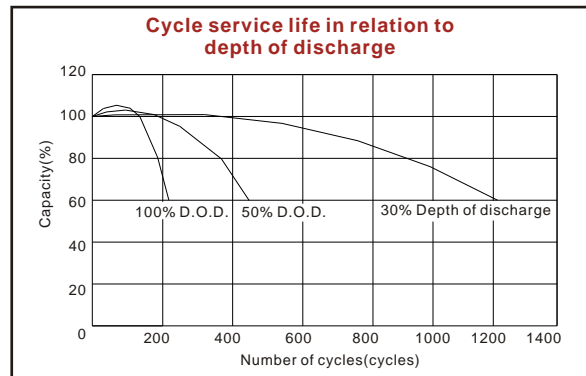
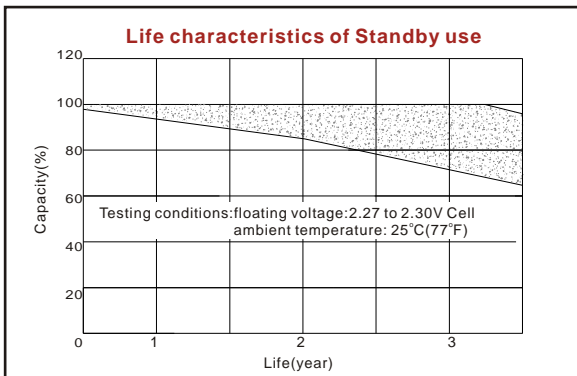
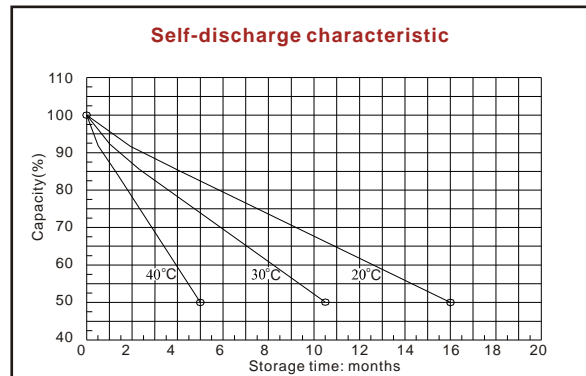
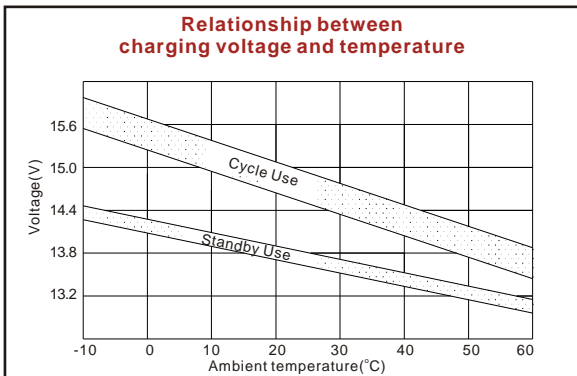
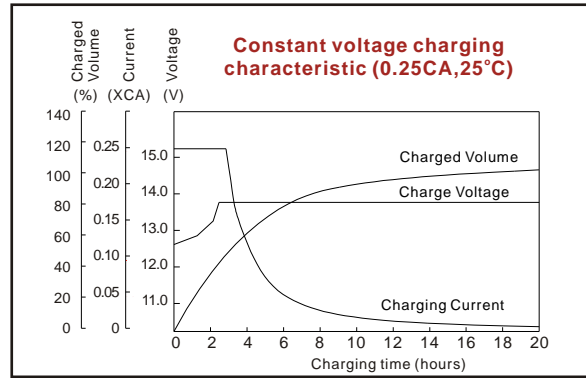
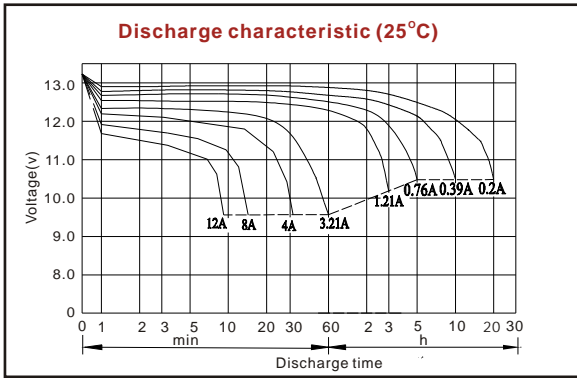
Discharge Constant Current (Amperes at 77°F25°C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
|----------------------|------|-------|-------|-------|------|------|------|-------|-------|
| 1.60V | 18.8 | 12.6 | 9.75 | 5.85 | 3.21 | 1.24 | 0.79 | 0.408 | 0.210 |
| 1.65V | 18.2 | 12.3 | 9.50 | 5.75 | 3.17 | 1.22 | 0.78 | 0.402 | 0.207 |
| 1.70V | 17.6 | 11.9 | 9.25 | 5.65 | 3.13 | 1.21 | 0.77 | 0.396 | 0.203 |
| 1.75V | 16.9 | 11.6 | 9.00 | 5.55 | 3.10 | 1.19 | 0.76 | 0.390 | 0.200 |
| 1.80V | 16.1 | 11.2 | 8.71 | 5.43 | 3.05 | 1.17 | 0.75 | 0.382 | 0.196 |

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

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h |
|----------------------|------|-------|-------|-------|-------|------|------|------|------|
| 1.60V | 33.1 | 23.3 | 18.4 | 11.3 | 8.02 | 6.17 | 3.43 | 2.38 | 1.53 |
| 1.65V | 32.1 | 22.8 | 18.0 | 11.1 | 7.94 | 6.13 | 3.41 | 2.36 | 1.52 |
| 1.70V | 31.2 | 22.3 | 17.6 | 11.0 | 7.86 | 6.08 | 3.38 | 2.34 | 1.51 |
| 1.75V | 30.2 | 21.8 | 17.2 | 10.8 | 7.81 | 6.06 | 3.36 | 2.32 | 1.50 |
| 1.80V | 29.0 | 21.1 | 16.8 | 10.7 | 7.71 | 6.00 | 3.32 | 2.30 | 1.49 |

(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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