

CP6100 6V 10Ah(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

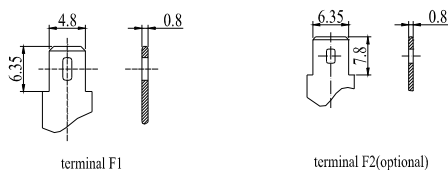
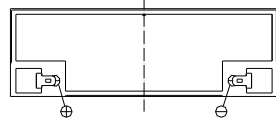
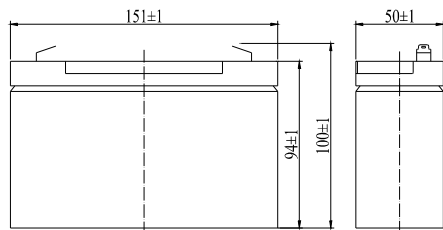
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|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|---------------|
| Component | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
| 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) | 151 / 5.94 |
| Width(mm / inch) | 50 / 1.97 |
| Height(mm / inch) | 94 / 3.70 |
| Total Height(mm / inch) | 100 / 3.94 |
| Approx. Weight(Kg / lbs) | 1.67 / 3.68 |



Performance Characteristics

| | |
|--|------------|
| Nominal Voltage | 6V |
| Number of cell | 3 |
| Design Life | 3-5 years |
| Nominal Capacity 77°F(25°C) | |
| 20 hour rate (0.5A, 5.25V) | 10Ah |
| 10 hour rate (0.91A, 5.25V) | 9.1Ah |
| 5 hour rate (1.75A, 5.25V) | 8.75Ah |
| 1 hour rate (6.6A, 4.8V) | 6.6Ah |
| Internal Resistance | |
| Fully Charged battery 77°F(25°C) | 10mOhms |
| 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) | 150A(5s) |
| Short Circuit Current | 500A |
| Charge Methods: Constant Voltage Charge 77°F(25°C) | |
| Cycle use | 7.25-7.45V |
| Maximum charging current | 4A |
| Temperature compensation | -15mV/°C |
| Standby use | 6.8-6.9V |
| Temperature compensation | -10mV/°C |

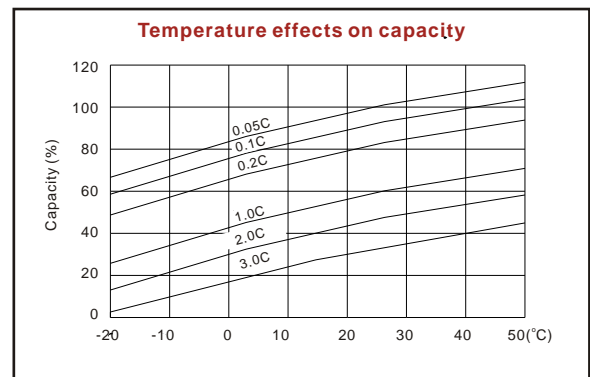
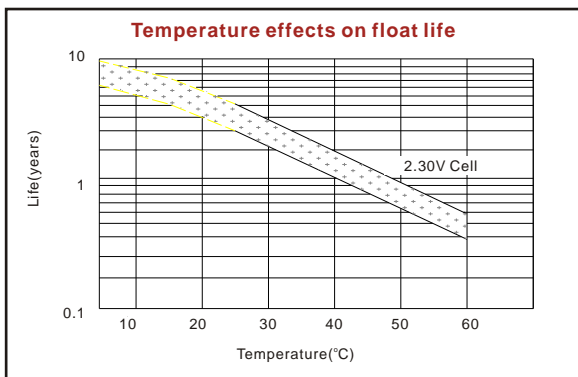
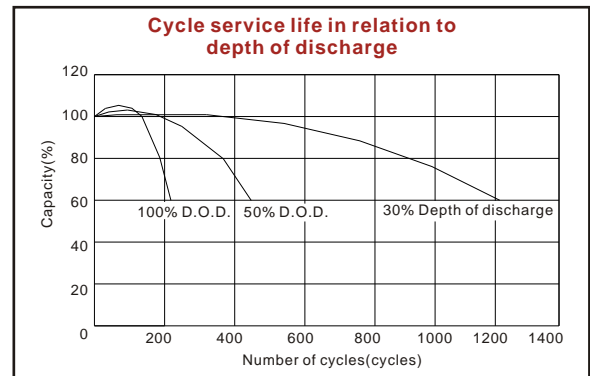
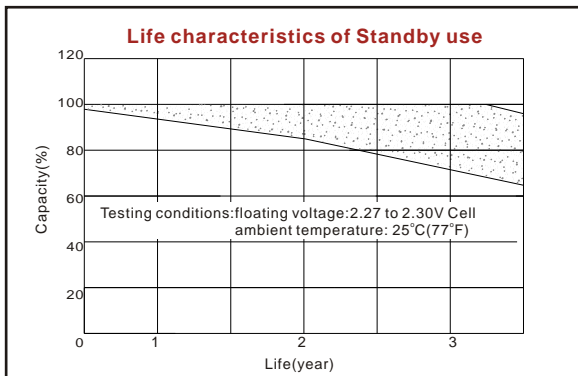
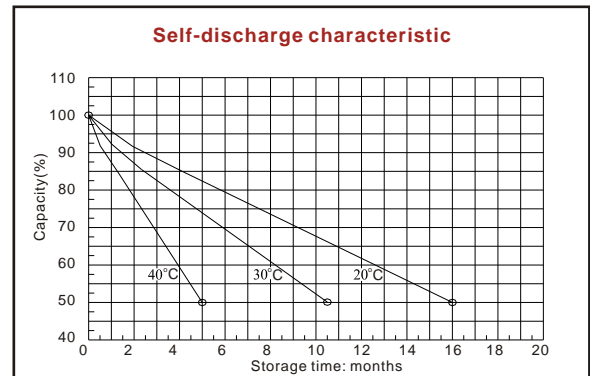
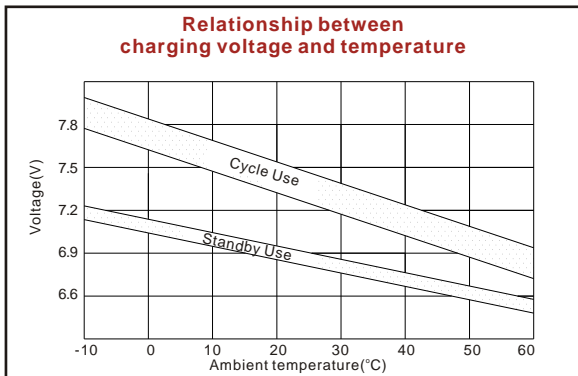
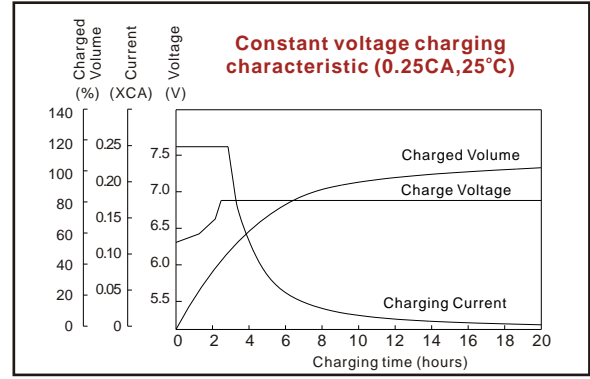
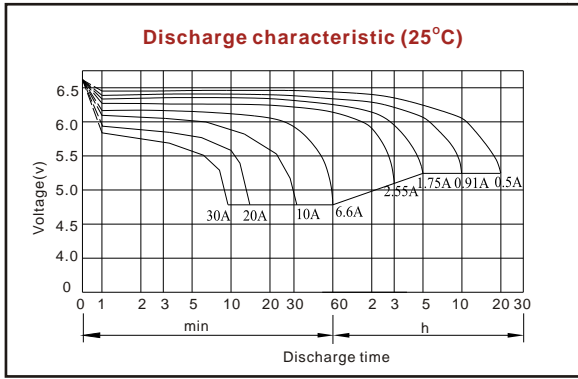
Discharge Constant Current (Amperes at 77°F25°C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
|----------------------|------|-------|-------|-------|------|------|------|------|------|
| 1.60V | 38.0 | 25.0 | 20.0 | 10.70 | 6.60 | 2.73 | 1.90 | 0.97 | 0.52 |
| 1.65V | 36.0 | 23.8 | 19.1 | 10.30 | 6.36 | 2.64 | 1.85 | 0.95 | 0.51 |
| 1.70V | 34.0 | 22.6 | 18.2 | 9.82 | 6.11 | 2.55 | 1.80 | 0.93 | 0.51 |
| 1.75V | 31.9 | 21.3 | 17.3 | 9.35 | 5.84 | 2.45 | 1.75 | 0.91 | 0.50 |
| 1.80V | 29.7 | 20.0 | 16.3 | 8.86 | 5.56 | 2.34 | 1.69 | 0.89 | 0.49 |

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

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h |
|----------------------|------|-------|-------|-------|-------|------|------|------|------|
| 1.60V | 71.0 | 49.6 | 40.0 | 23.6 | 17.6 | 13.7 | 7.62 | 5.33 | 3.75 |
| 1.65V | 66.6 | 46.7 | 37.8 | 22.4 | 16.8 | 13.1 | 7.44 | 5.20 | 3.68 |
| 1.70V | 62.2 | 43.8 | 35.6 | 21.2 | 16.0 | 12.5 | 7.22 | 5.05 | 3.61 |
| 1.75V | 57.8 | 40.9 | 33.4 | 20.0 | 15.1 | 11.9 | 7.01 | 4.90 | 3.53 |
| 1.80V | 53.5 | 38.1 | 31.2 | 18.8 | 14.2 | 11.3 | 6.78 | 4.74 | 3.44 |

(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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