

CP612 6V 1.2Ah(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

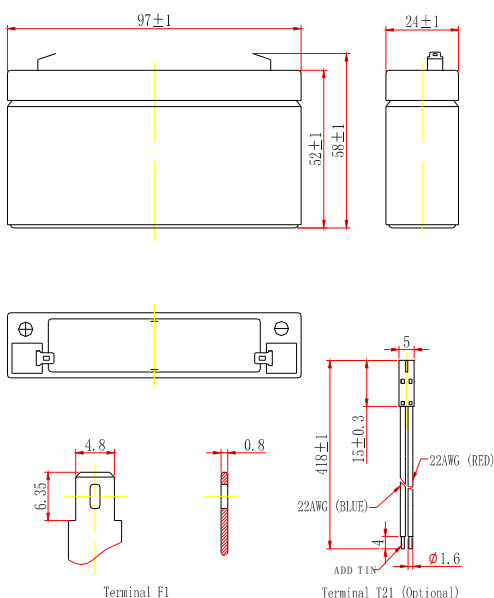
| Component | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
|--------------|----------------|----------------|-----------|-------|--------------|-------------|------------|---------------|
| Raw material | Lead dioxide | Lead | ABS | ABS | Rubber | Copper/Plug | 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) | 97 / 3.82 |
| Width(mm / inch) | 24 / 0.94 |
| Height(mm / inch) | 52 / 2.05 |
| Total Height(mm / inch) | 58 / 2.28 |
| Approx. Weight(Kg / lbs) | 0.31 / 0.68 |



Performance Characteristics

| | |
|--|--------------|
| Nominal Voltage | 6V |
| Number of cell | 3 |
| Design Life | 5 years |
| Nominal Capacity 77°F(25°C) | |
| 20 hour rate (0.06A, 5.25V) | 1.2Ah |
| 10 hour rate (0.11A, 5.25V) | 1.1Ah |
| 5 hour rate (0.21A, 5.25V) | 1.05Ah |
| 1 hour rate (0.82A, 4.8V) | 0.82Ah |
| Internal Resistance | |
| Fully Charged battery 77°F(25°C) | 50mOhms |
| 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) | 18A(5s) |
| Short Circuit Current | 60A |
| Charge Methods: Constant Voltage Charge 77°F(25°C) | |
| Cycle use | 2.30-2.35VPC |
| Maximum charging current | 0.48A |
| Temperature compensation | -15mV/°C |
| Standby use | 2.23-2.27VPC |
| Temperature compensation | -10mV/°C |

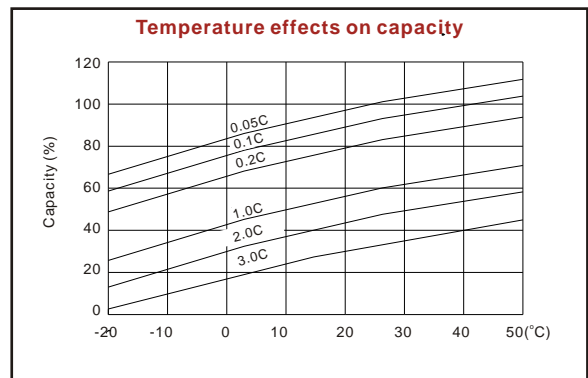
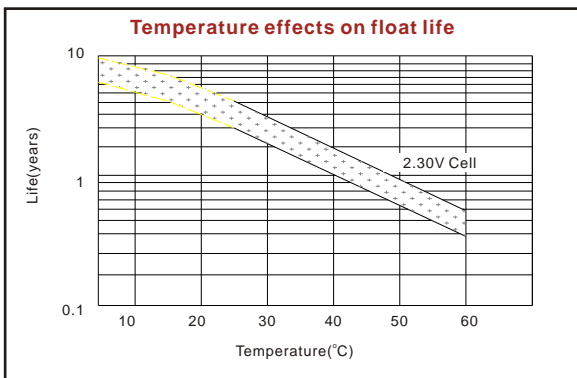
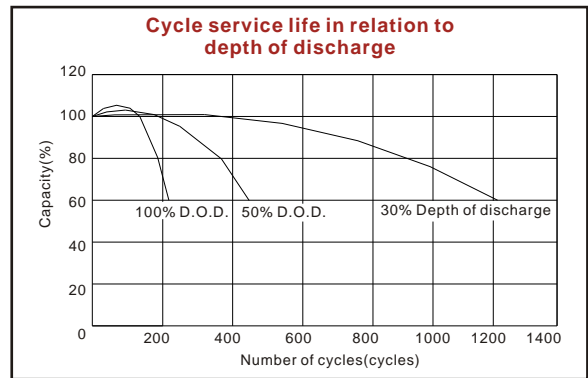
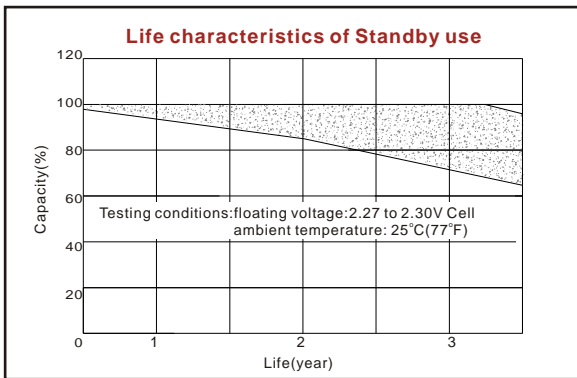
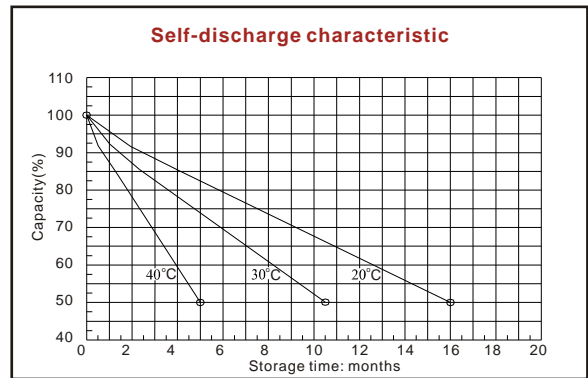
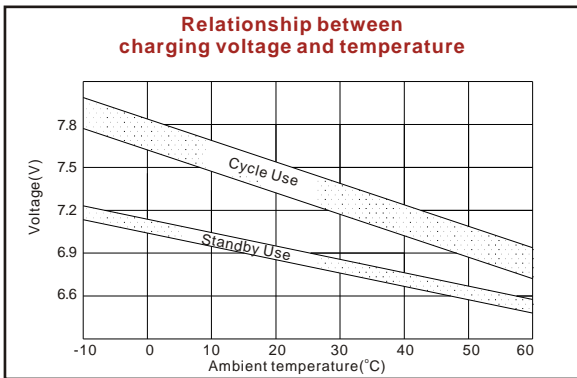
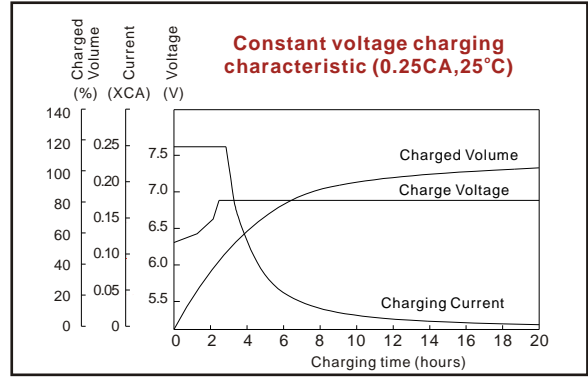
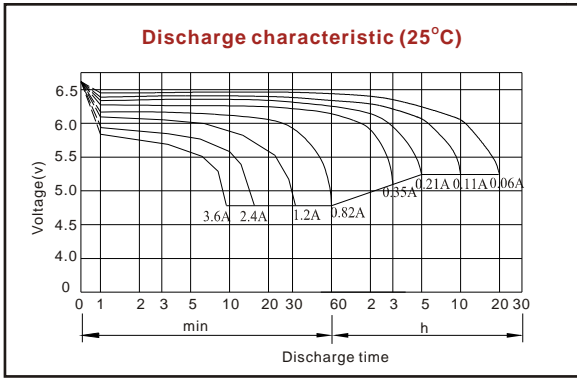
Discharge Constant Current (Amperes at 77°F25°C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
|----------------------|------|-------|-------|-------|------|------|------|------|------|
| 1.60V | 5.00 | 3.50 | 2.50 | 1.45 | 0.82 | 0.36 | 0.22 | 0.11 | 0.06 |
| 1.65V | 4.71 | 3.34 | 2.40 | 1.39 | 0.79 | 0.36 | 0.22 | 0.11 | 0.06 |
| 1.70V | 4.36 | 3.12 | 2.27 | 1.31 | 0.75 | 0.35 | 0.21 | 0.11 | 0.06 |
| 1.75V | 4.00 | 2.88 | 2.11 | 1.21 | 0.69 | 0.33 | 0.21 | 0.11 | 0.06 |
| 1.80V | 3.55 | 2.61 | 1.95 | 1.08 | 0.63 | 0.31 | 0.21 | 0.11 | 0.06 |

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

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h |
|----------------------|------|-------|-------|-------|-------|------|------|------|------|
| 1.60V | 8.80 | 6.02 | 4.80 | 2.75 | 2.08 | 1.64 | 1.00 | 0.72 | 0.50 |
| 1.65V | 7.38 | 5.73 | 4.58 | 2.63 | 1.99 | 1.58 | 0.96 | 0.69 | 0.50 |
| 1.70V | 6.93 | 5.40 | 4.33 | 2.50 | 1.87 | 1.47 | 0.90 | 0.65 | 0.48 |
| 1.75V | 6.44 | 5.02 | 4.02 | 2.34 | 1.71 | 1.37 | 0.83 | 0.61 | 0.48 |
| 1.80V | 5.84 | 4.56 | 3.61 | 2.13 | 1.52 | 1.21 | 0.73 | 0.54 | 0.48 |

(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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