

CP677 6V 7.7Ah(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

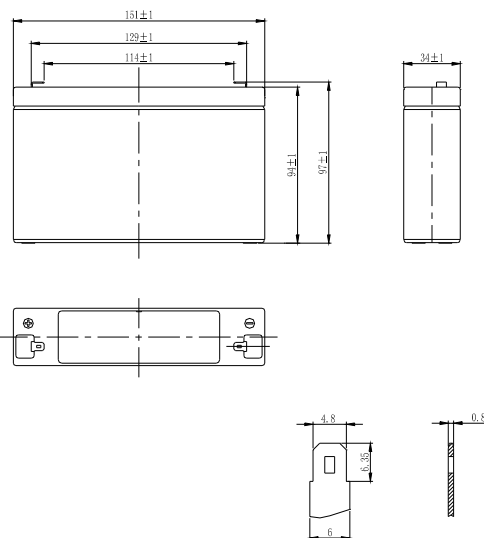
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|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|---------------|
| Component | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
| 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 ± 1 / 5.94 |
| Width(mm / inch) | 34 ± 1 / 1.34 |
| Height(mm / inch) | 94 ± 1 / 3.70 |
| Total Height(mm / inch) | 97 ± 1 / 3.82 |
| Approx. Weight(Kg / lbs) | 1.34 / 2.95 |



Performance Characteristics

| | |
|--|------------|
| Nominal Voltage | 6V |
| Number of cell | 3 |
| Design Life | 3-5 years |
| Nominal Capacity 77°F(25°C) | |
| 20 hour rate (0.385A, 5.25V) | 7.7Ah |
| 10 hour rate (0.72A, 5.25V) | 7.2Ah |
| 5 hour rate (1.25A, 5.25V) | 6.25Ah |
| 1 hour rate (5.12A, 4.8V) | 5.12Ah |
| Internal Resistance | |
| Fully Charged battery 77°F(25°C) | 13mOhms |
| 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) | 115.5A(5s) |
| Short Circuit Current | 385A |
| Charge Methods: Constant Voltage Charge 77°F(25°C) | |
| Cycle use | 7.25-7.45V |
| Maximum charging current | 3.08A |
| Temperature compensation | -15mV/°C |
| Standby use | 6.8-6.9V |
| Temperature compensation | -10mV/°C |

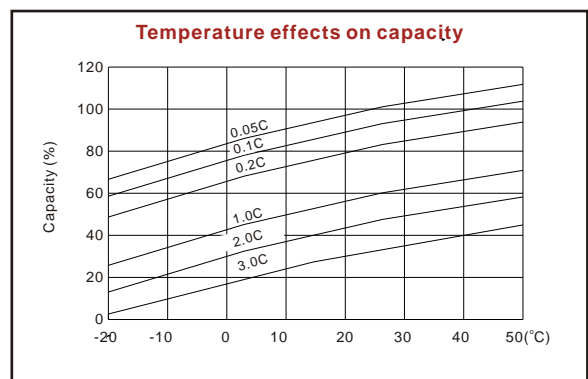
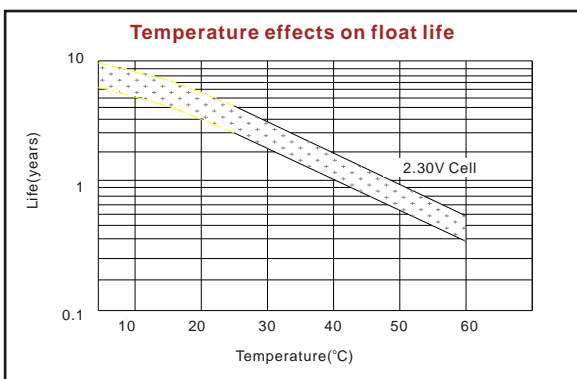
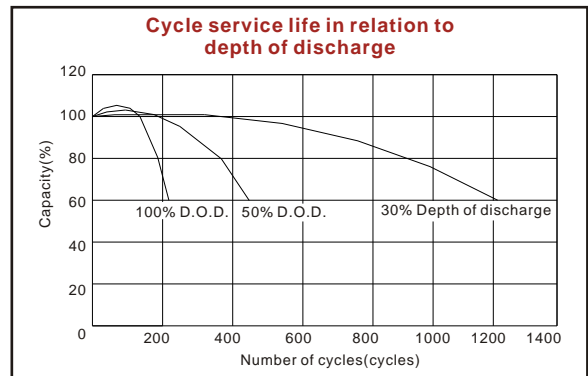
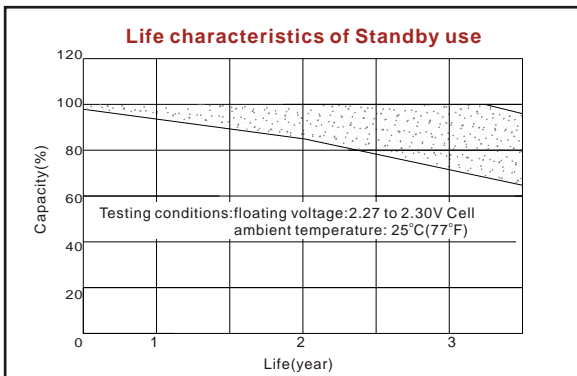
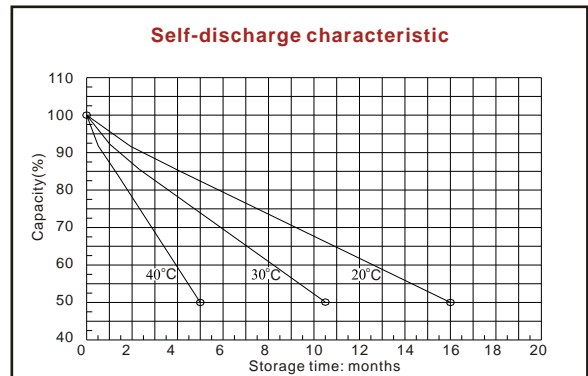
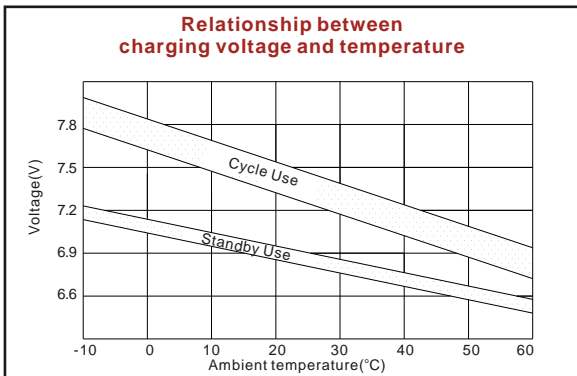
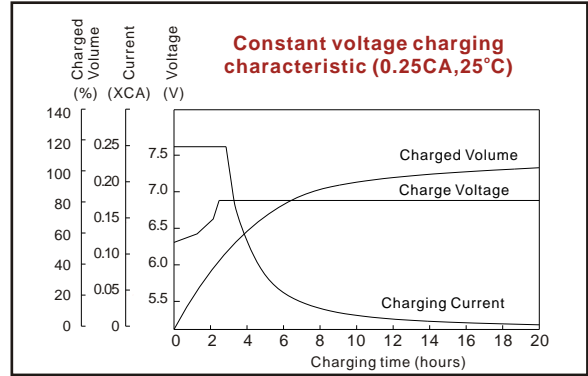
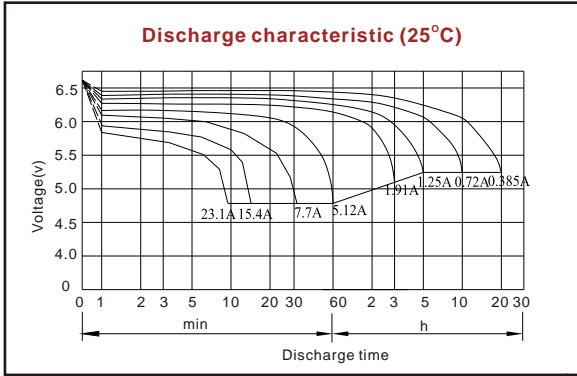
Discharge Constant Current (Amperes at 77°F25°C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
|----------------------|------|-------|-------|-------|------|------|------|------|-------|
| 1.60V | 30.6 | 18.9 | 15.3 | 8.77 | 5.12 | 1.98 | 1.30 | 0.73 | 0.390 |
| 1.65V | 28.8 | 18.3 | 14.9 | 8.56 | 5.07 | 1.95 | 1.29 | 0.73 | 0.390 |
| 1.70V | 27.8 | 17.9 | 14.6 | 8.39 | 4.98 | 1.91 | 1.27 | 0.73 | 0.385 |
| 1.75V | 25.8 | 17.3 | 14.3 | 8.12 | 4.86 | 1.85 | 1.25 | 0.72 | 0.385 |
| 1.80V | 23.1 | 16.8 | 13.4 | 7.63 | 4.69 | 1.79 | 1.24 | 0.72 | 0.385 |

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

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h |
|----------------------|------|-------|-------|-------|-------|-------|------|------|------|
| 1.60V | 58.1 | 37.1 | 30.4 | 17.4 | 13.1 | 10.20 | 5.50 | 3.96 | 2.48 |
| 1.65V | 56.2 | 36.3 | 29.9 | 17.0 | 13.0 | 10.10 | 5.45 | 3.92 | 2.45 |
| 1.70V | 54.5 | 35.4 | 29.1 | 16.7 | 12.8 | 9.94 | 5.40 | 3.85 | 2.42 |
| 1.75V | 50.7 | 34.2 | 28.3 | 16.1 | 12.4 | 9.66 | 5.34 | 3.72 | 2.39 |
| 1.80V | 44.7 | 33.0 | 26.7 | 15.3 | 12.0 | 9.32 | 5.26 | 3.58 | 2.33 |

(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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