

# CP12170 12V 17Ah(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   | Fiberglass | Sulfuric acid |

## General Features

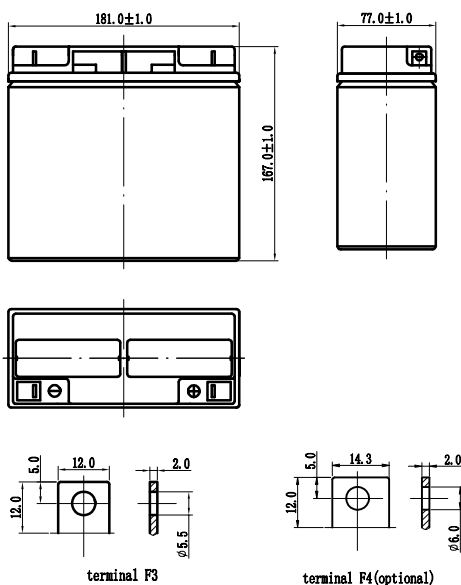
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

## Performance Characteristics

|  |              |
|--|--------------|
| Nominal Voltage                                    | 12V          |
| Number of cell                                     | 6            |
| Design Life  | 5 years      |
| Nominal Capacity 77°F(25°C)                        |              |
| 20 hour rate (0.85A, 10.5V)                        | 17Ah         |
| 10 hour rate (1.68A, 10.5V)                        | 16.8Ah       |
| 5 hour rate (3.01A, 10.5V)                         | 15.05Ah      |
| 1 hour rate (12A, 9.6V)                            | 12Ah         |
| Internal Resistance                                |              |
| Fully Charged battery 77°F(25°C)                   | 14mOhms      |
| 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)                  | 225A(5s)     |
| Short Circuit Current                              | 850A         |
| Charge Methods: Constant Voltage Charge 77°F(25°C) |              |
| Cycle use  | 2.30-2.35VPC |
| Maximum charging current                           | 6.8A         |
| Temperature compensation                           | -30mV/°C     |
| Standby use  | 2.23-2.27VPC |
| Temperature compensation                           | -20mV/°C     |

## Dimensions and Weight

|                          |            |
|--------------------------|------------|
| Length(mm / inch)        | 181 / 7.13 |
| Width(mm / inch)         | 77 / 3.03  |
| Height(mm / inch)        | 167 / 6.57 |
| Total Height(mm / inch)  | 167 / 6.57 |
| Approx. Weight(Kg / lbs) | 5.5 / 12.1 |

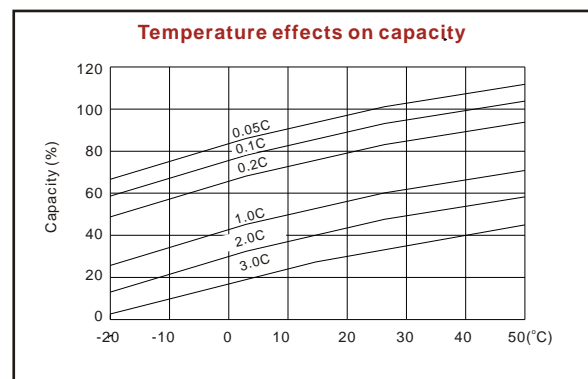
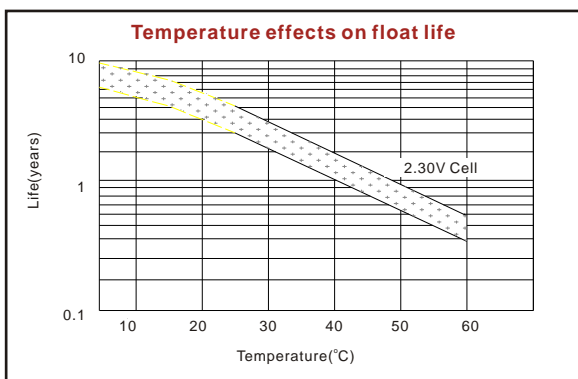
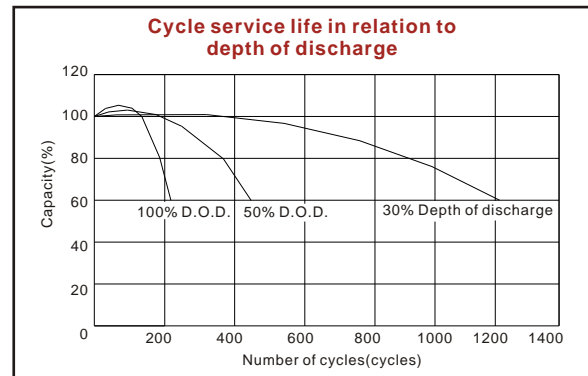
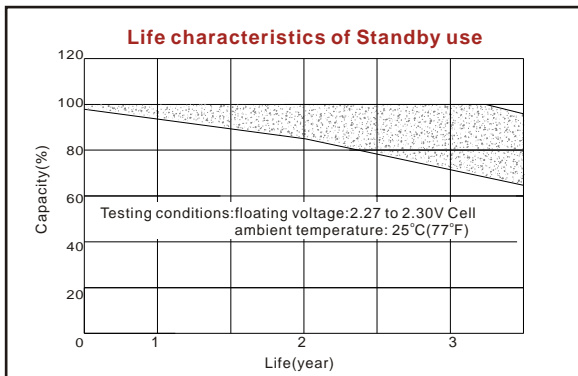
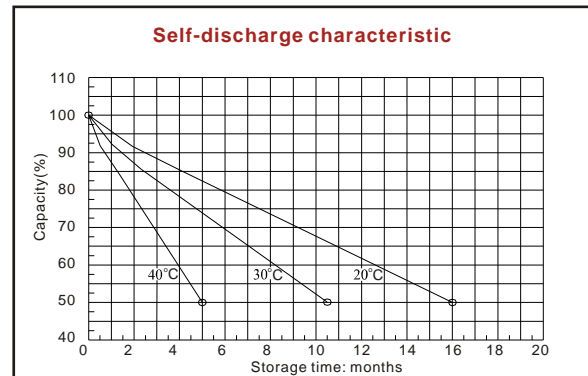
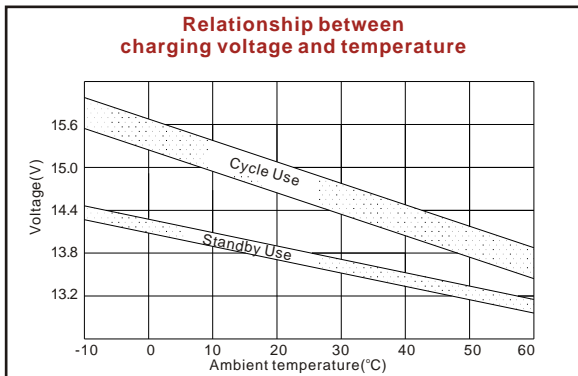
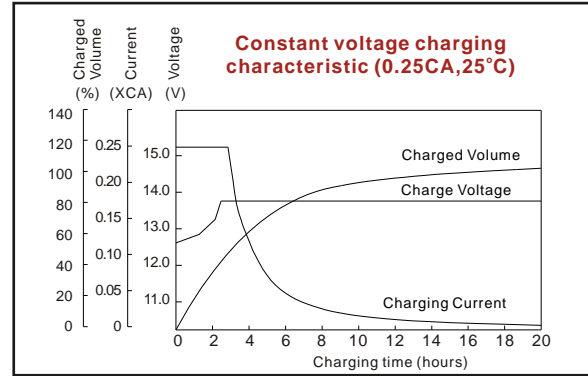
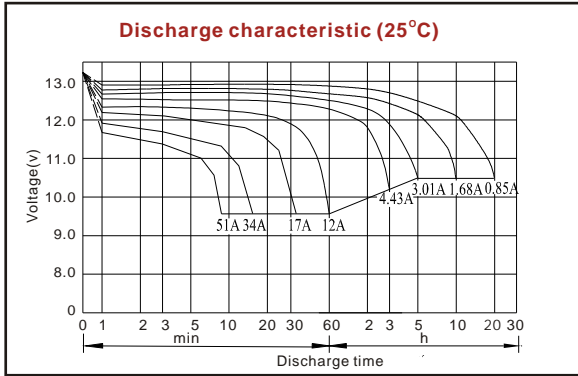


## Discharge Constant Current (Amperes at 77°F25°C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 1h   | 3h   | 5h   | 10h  | 20h  |
|----------------------|------|-------|-------|-------|------|------|------|------|------|
| 1.60V                | 67.0 | 45.1  | 34.3  | 20.2  | 12.0 | 4.65 | 3.10 | 1.70 | 0.89 |
| 1.65V                | 64.6 | 44.0  | 33.5  | 19.8  | 11.8 | 4.57 | 3.05 | 1.68 | 0.88 |
| 1.70V                | 62.2 | 42.9  | 32.6  | 19.3  | 11.6 | 4.49 | 3.00 | 1.65 | 0.87 |
| 1.75V                | 59.8 | 41.7  | 31.8  | 18.9  | 11.3 | 4.40 | 2.94 | 1.63 | 0.85 |
| 1.80V                | 57.4 | 40.6  | 30.9  | 18.4  | 11.1 | 4.32 | 2.89 | 1.60 | 0.84 |

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h   | 2h   | 3h   | 5h   |
|----------------------|------|-------|-------|-------|-------|------|------|------|------|
| 1.60V                | 117  | 79.0  | 61.0  | 36.0  | 27.4  | 22.0 | 13.1 | 9.10 | 6.16 |
| 1.65V                | 113  | 77.4  | 59.8  | 35.5  | 27.1  | 21.8 | 13.0 | 9.01 | 6.10 |
| 1.70V                | 110  | 75.8  | 58.5  | 35.0  | 26.7  | 21.5 | 12.8 | 8.92 | 6.04 |
| 1.75V                | 106  | 74.1  | 57.3  | 34.5  | 26.4  | 21.3 | 12.7 | 8.83 | 5.98 |
| 1.80V                | 102  | 72.5  | 56.0  | 34.0  | 26.0  | 21.0 | 12.5 | 8.74 | 5.92 |

(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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