

# CL200 2V 200Ah(10hr)



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 |

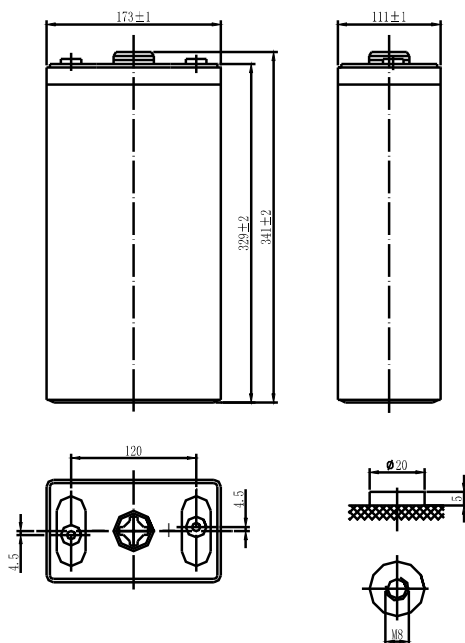
## General Features

- 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.

## Dimensions and Weight

|                          |             |
|--------------------------|-------------|
| Length(mm / inch)        | 173 / 6.81  |
| Width(mm / inch)         | 111 / 4.37  |
| Height(mm / inch)        | 329 / 12.96 |
| Total Height(mm / inch)  | 364 / 14.3  |
| Approx. Weight(Kg / lbs) | 14.2 / 31.3 |

\* Weight deviation: ± 3%



Total height with removeable cover: 364

## Performance Characteristics

|  |              |
|--|--------------|
| Nominal Voltage                                    | 2V           |
| Number of cell                                     | 1            |
| Design Life  | 20 years     |
| Nominal Capacity 77°F(25°C)                        |              |
| 10 hour rate (20A, 1.8V)                           | 200Ah        |
| 5 hour rate (36.3A, 1.75V)                         | 181.5Ah      |
| 1 hour rate (124A, 1.6V)                           | 124Ah        |
| Internal Resistance                                |              |
| Fully Charged battery 77°F(25°C)                   | ≤ 0.80mOhms  |
| 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)                  | 1000A(5s)    |
| Charge Methods: Constant Voltage Charge 77°F(25°C) |              |
| Cycle use  | 2.40-2.45VPC |
| Maximum charging current                           | 40A          |
| Temperature compensation                           | -5.0mV/°C    |
| Standby use  | 2.20-2.30VPC |
| Temperature compensation                           | -3.3mV/°C    |

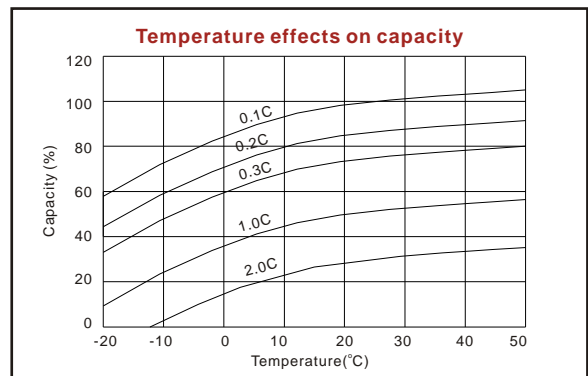
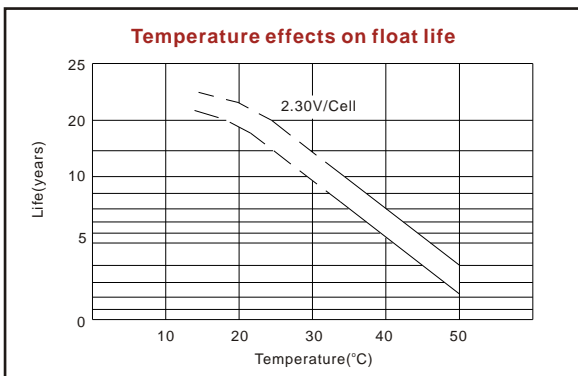
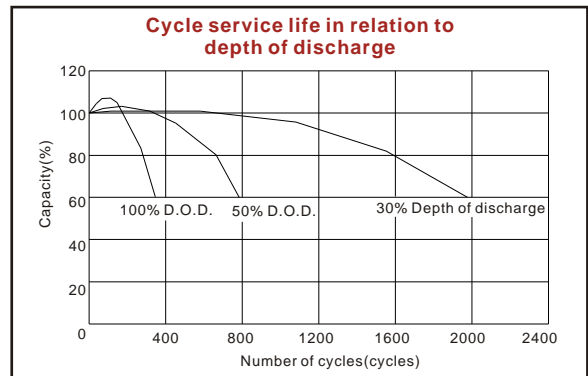
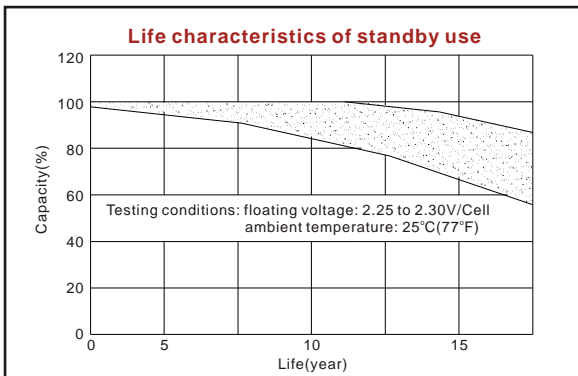
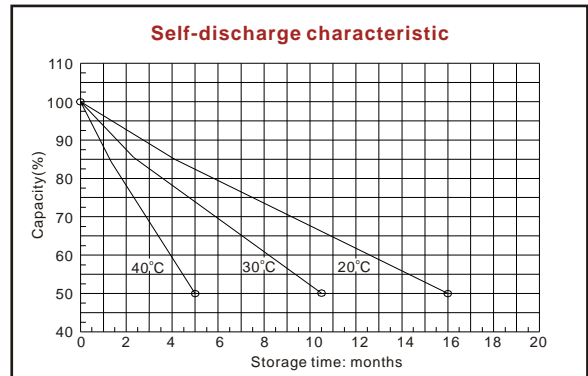
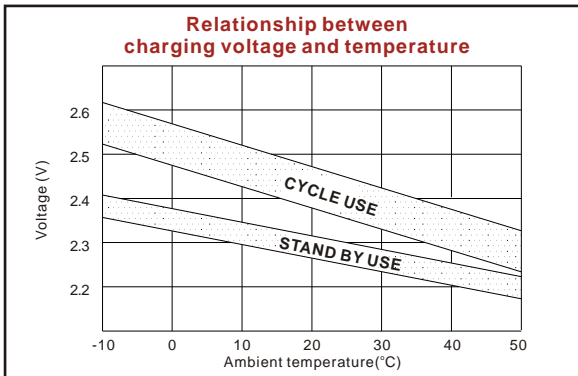
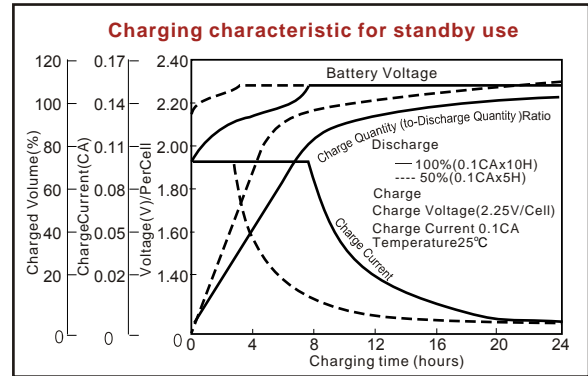
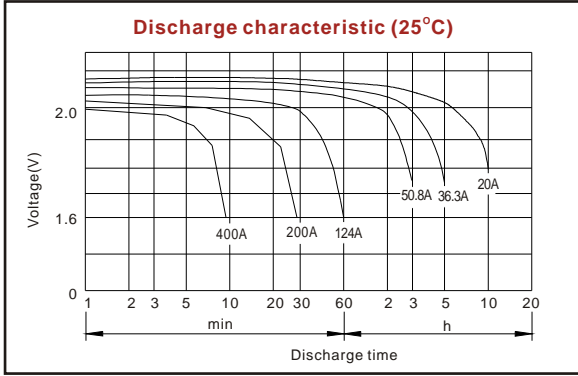
## Discharge Constant Current (Amperes at 77°F25°C)

| End Point Volts/Cell | 15min | 30min | 45min | 1h  | 3h   | 5h   | 10h  |
|----------------------|-------|-------|-------|-----|------|------|------|
| 1.60V                | 294   | 196   | 162   | 124 | 56.6 | 39.3 | 21.4 |
| 1.65V                | 280   | 187   | 155   | 120 | 54.8 | 38.4 | 21.2 |
| 1.70V                | 265   | 178   | 148   | 115 | 52.9 | 37.4 | 20.9 |
| 1.75V                | 250   | 169   | 141   | 110 | 50.8 | 36.3 | 20.5 |
| 1.80V                | 235   | 160   | 134   | 104 | 48.6 | 35.0 | 20.0 |

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

| End Point Volts/Cell | 15min | 30min | 45min | 1h  | 2h  | 3h   | 5h   |
|----------------------|-------|-------|-------|-----|-----|------|------|
| 1.60V                | 524   | 380   | 308   | 245 | 146 | 106  | 78.0 |
| 1.65V                | 499   | 364   | 299   | 235 | 142 | 104  | 76.6 |
| 1.70V                | 473   | 348   | 289   | 224 | 137 | 101  | 75.1 |
| 1.75V                | 446   | 331   | 280   | 213 | 132 | 98.0 | 73.5 |
| 1.80V                | 420   | 315   | 272   | 201 | 126 | 94.7 | 71.7 |

(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values. All data shall be changed without notice, Vision reserves the right to explain and update the information contained hereinto.



ISO9001:2008

MH25860

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