

CL3000 2V 3000Ah(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

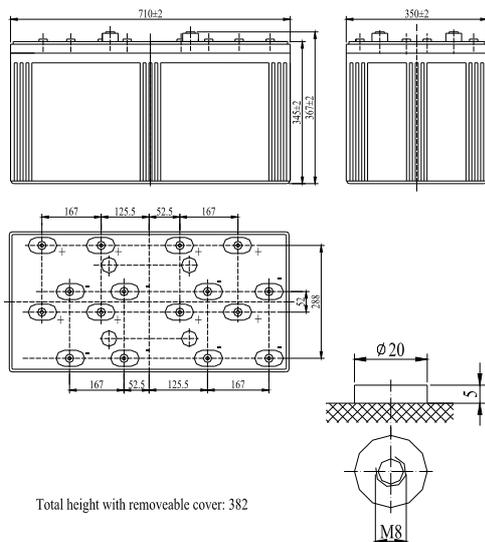
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|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|---------------|
| Component | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
| 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).....710 / 27.95
 Width(mm / inch).....350 / 13.78
 Height(mm / inch).....345 / 13.58
 Total Height(mm / inch).....382 / 15.04
 Approx. Weight(Kg / lbs).....204 / 449.7



Total height with removable cover: 382

Performance Characteristics

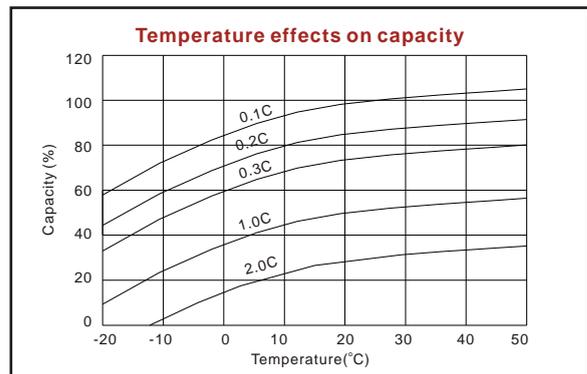
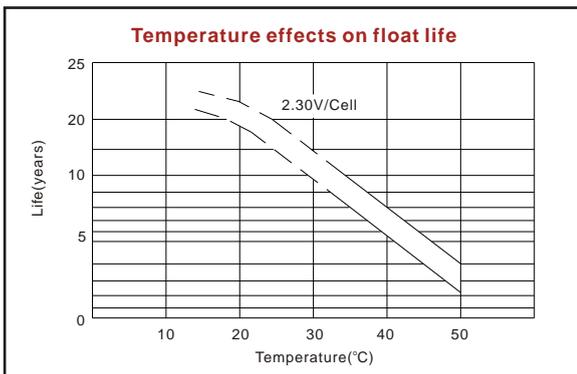
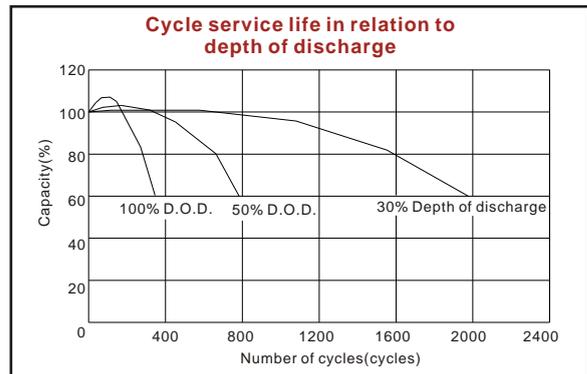
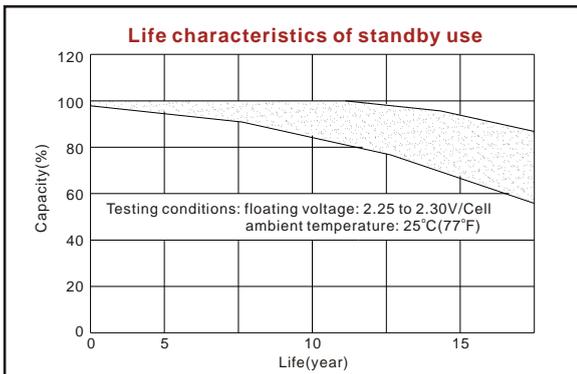
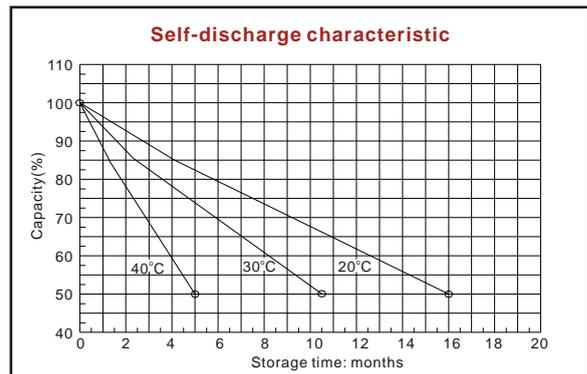
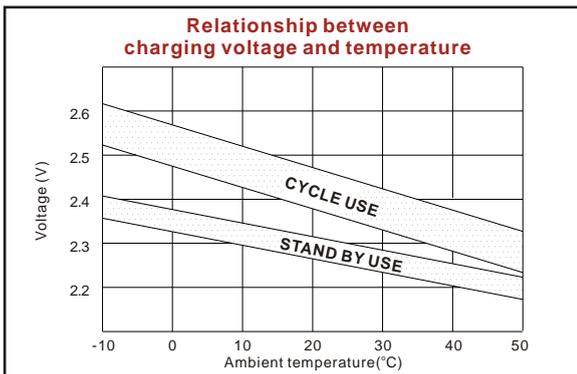
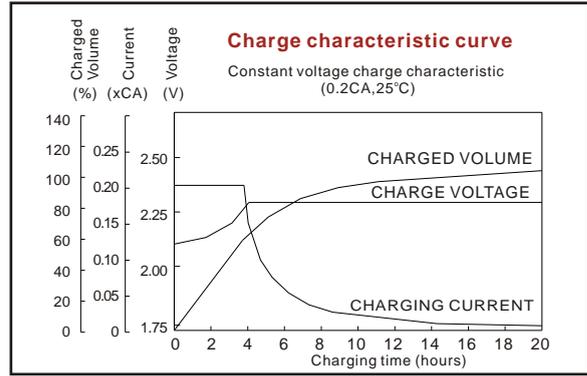
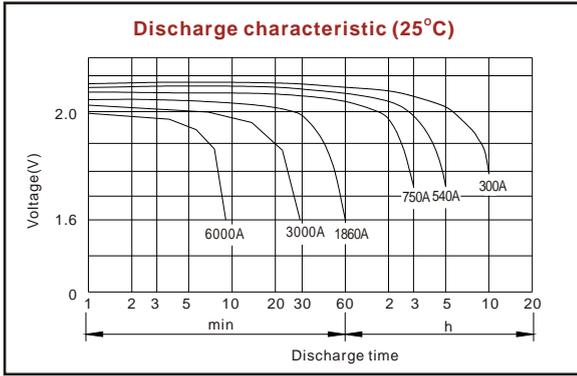
Nominal Voltage2V
 Number of cell1
 Design Life20 years
 Nominal Capacity 77°F(25°C)
 10 hour rate (300A, 1.8V)..... 3000Ah
 5 hour rate (540A, 1.75V)..... 2700Ah
 1 hour rate (1860A, 1.6V)..... 1860Ah
 Internal Resistance
 Fully Charged battery 77°F(25°C)..... 0.45mOhms
 Self-Discharge
 3% of capacity 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)7000A(5s)
 Charge Methods: Constant Voltage Charge 77°F(25°C)
 Cycle use 2.35-2.45V
 Maximum charging current 600A
 Temperature compensation.....-5.0mV/°C
 Standby use 2.25-2.3V
 Temperature compensation.....-3.3mV/°C

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

| End Point Volts/Cell | 10min | 15min | 30min | 45min | 1h | 3h | 5h | 10h |
|----------------------|-------|-------|-------|-------|------|-----|-----|-----|
| 1.60V | 5165 | 4033 | 2989 | 2173 | 1860 | 836 | 582 | 321 |
| 1.65V | 4896 | 3839 | 2857 | 2086 | 1803 | 809 | 570 | 318 |
| 1.70V | 4617 | 3639 | 2720 | 1994 | 1747 | 785 | 560 | 313 |
| 1.75V | 4331 | 3436 | 2579 | 1898 | 1688 | 750 | 540 | 307 |
| 1.80V | 4041 | 3230 | 2434 | 1800 | 1642 | 717 | 530 | 300 |

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

| End Point Volts/Cell | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h |
|----------------------|-------|-------|-------|-------|------|------|------|-----|
| 1.60V | 7748 | 6050 | 4484 | 3477 | 2976 | 2040 | 1423 | 922 |
| 1.65V | 7344 | 5759 | 4286 | 3338 | 2895 | 2017 | 1386 | 906 |
| 1.70V | 6926 | 5459 | 4088 | 3199 | 2814 | 1942 | 1346 | 888 |
| 1.75V | 6497 | 5154 | 3890 | 3060 | 2733 | 1859 | 1302 | 869 |
| 1.80V | 6062 | 4845 | 3692 | 2921 | 2652 | 1770 | 1268 | 826 |



ISO9001:2000

MH25860

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