

CP1290L 12V 9Ah(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

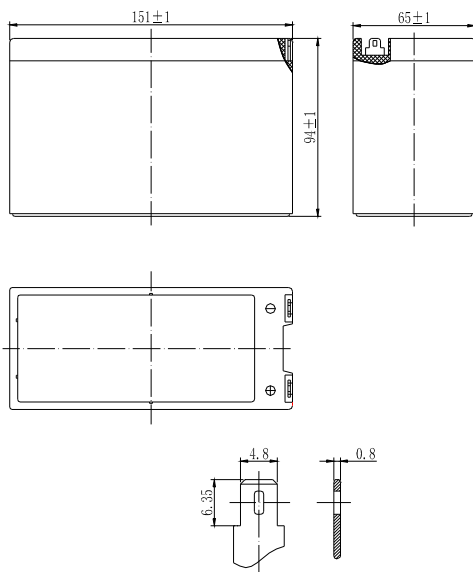
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|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|---------------|
| Component | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
| 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 / 5.94
 Width(mm / inch).....65 / 2.56
 Height(mm / inch).....94 / 3.70
 Total Height(mm / inch).....94 / 3.70
 Approx. Weight(Kg / lbs).....2.8 / 6.17



Performance Characteristics

Nominal Voltage12V
 Number of cell6
 Design Life5 years
 Nominal Capacity 77°F(25°C)
 20 hour rate (0.45A, 10.5V)..... 9Ah
 10 hour rate (0.81A, 10.5V)..... 8.1Ah
 5 hour rate (1.46A, 10.5V)..... 7.3Ah
 1 hour rate (5.65A, 9.6V)..... 5.65Ah
 Internal Resistance
 Fully Charged battery 77°F(25°C)..... 18.3mOhms
 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) 135A(5s)
 Short Circuit Current 440A
 Charge Methods: Constant Voltage Charge 77°F(25°C)
 Cycle use 14.5-14.9V
 Maximum charging current 3.6A
 Temperature compensation -30mV/°C
 Standby use 13.6-13.8V
 Temperature compensation -20mV/°C

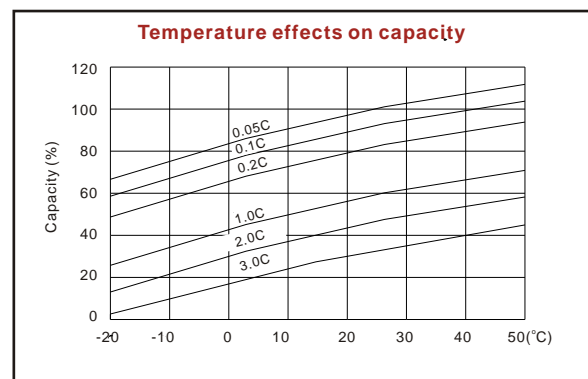
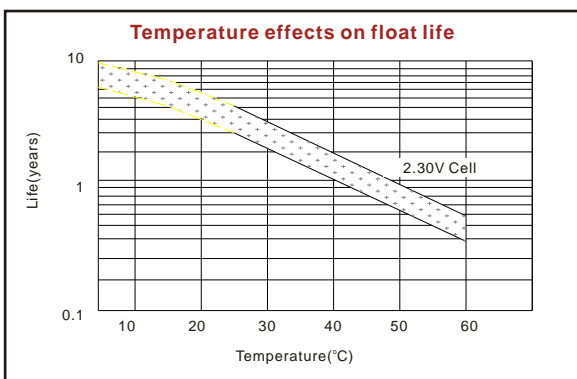
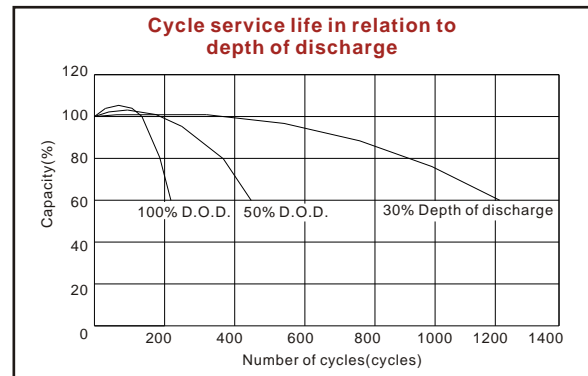
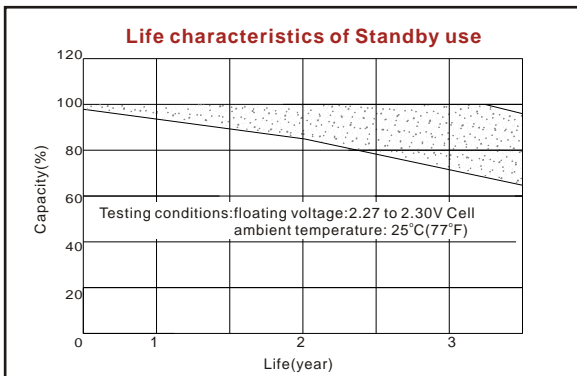
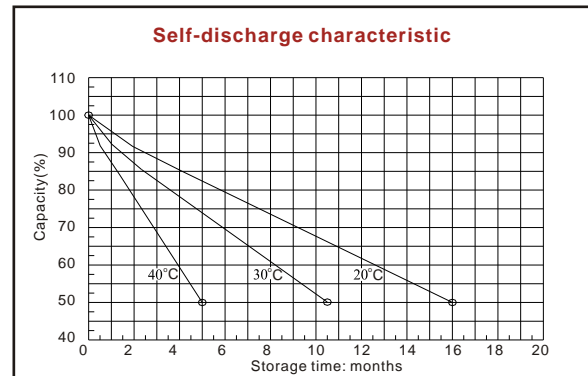
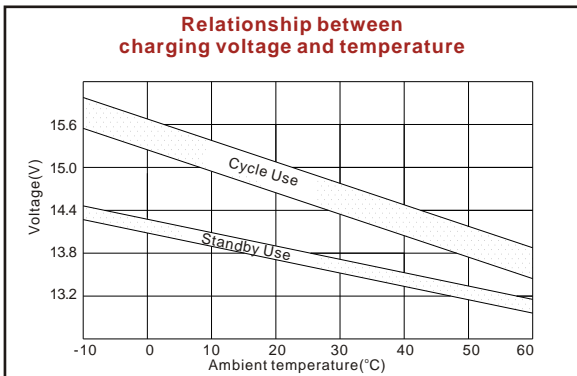
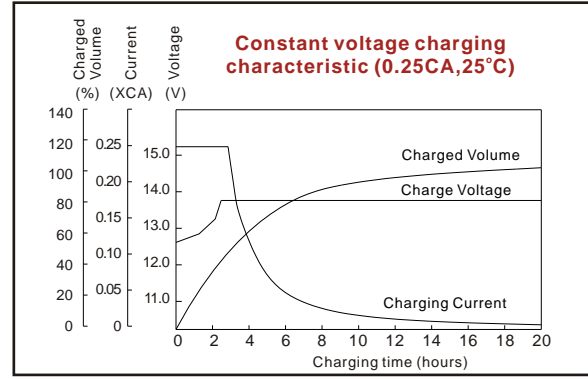
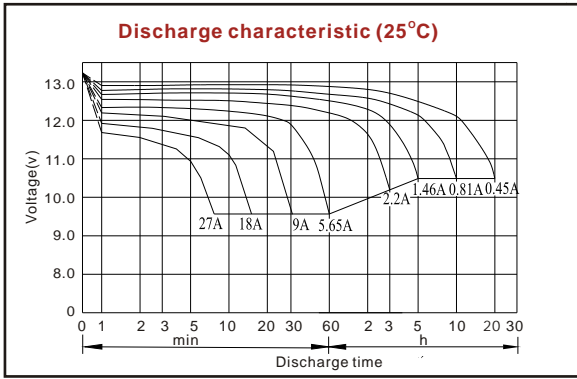
Discharge Constant Current (Amperes at 77°F25°C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
|----------------------|------|-------|-------|-------|------|------|------|------|------|
| 1.60V | 32.5 | 23.1 | 16.5 | 9.90 | 5.65 | 2.28 | 1.58 | 0.86 | 0.47 |
| 1.65V | 31.8 | 22.6 | 16.0 | 9.79 | 5.58 | 2.24 | 1.55 | 0.85 | 0.46 |
| 1.70V | 29.4 | 21.9 | 15.7 | 9.36 | 5.46 | 2.20 | 1.51 | 0.83 | 0.46 |
| 1.75V | 28.8 | 21.1 | 14.2 | 8.91 | 5.28 | 2.15 | 1.46 | 0.81 | 0.45 |
| 1.80V | 28.1 | 20.3 | 13.5 | 8.45 | 5.12 | 2.09 | 1.41 | 0.79 | 0.44 |

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

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h |
|----------------------|------|-------|-------|-------|-------|------|------|------|------|
| 1.60V | 69.7 | 44.0 | 32.7 | 19.1 | 14.2 | 11.3 | 6.18 | 4.24 | 2.82 |
| 1.65V | 66.3 | 43.5 | 32.0 | 18.7 | 13.9 | 11.0 | 6.11 | 4.20 | 2.81 |
| 1.70V | 62.8 | 42.1 | 31.1 | 18.0 | 13.4 | 10.6 | 5.96 | 4.12 | 2.79 |
| 1.75V | 59.4 | 40.3 | 30.2 | 17.1 | 12.7 | 10.1 | 5.82 | 4.00 | 2.74 |
| 1.80V | 56.0 | 38.5 | 28.4 | 16.0 | 12.0 | 9.6 | 5.65 | 3.85 | 2.70 |

(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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