

CP1229 12V 2.9Ah(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

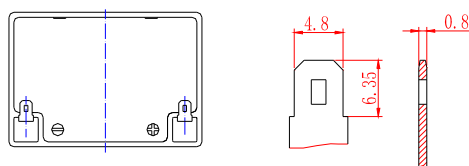
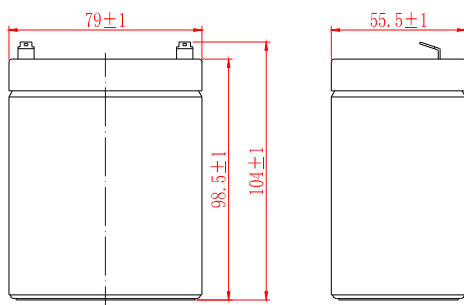
| Component | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|---------------|
| Raw material | Lead dioxide | Lead | ABS | ABS | Rubber | 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) | 79 / 3.11 |
| Width(mm / inch) | 55.5 / 2.19 |
| Height(mm / inch) | 98.5 / 3.88 |
| Total Height(mm / inch) | 104 / 4.09 |
| Approx. Weight(Kg / lbs) | 1.18 / 2.6 |



Performance Characteristics

| | |
|--|------------|
| Nominal Voltage | 12V |
| Number of cell | 6 |
| Design Life | 3~5 years |
| Nominal Capacity 77°F(25°C) | |
| 20 hour rate (0.145A, 10.5V) | 2.9Ah |
| 10 hour rate (0.26A, 10.5V) | 2.6Ah |
| 5 hour rate (0.51A, 10.5V) | 2.55Ah |
| 1 hour rate (2.2A, 9.6V) | 2.2Ah |
| Internal Resistance | |
| Fully Charged battery 77°F(25°C) | 40mOhms |
| 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) | 43.5A(5s) |
| Short Circuit Current | 145A |
| Charge Methods: Constant Voltage Charge 77°F(25°C) | |
| Cycle use | 14.5-14.9V |
| Maximum charging current | 1.16A |
| Temperature compensation | -30mV/°C |
| Standby use | 13.6-13.8V |
| Temperature compensation | -20mV/°C |

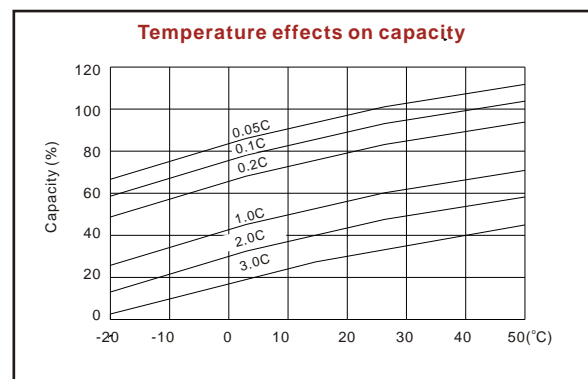
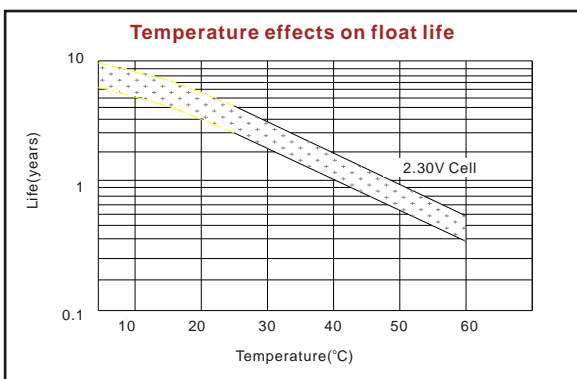
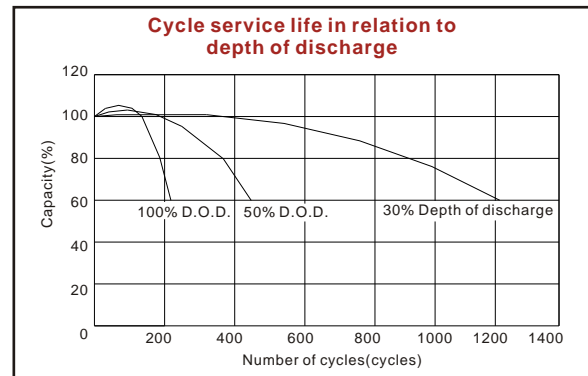
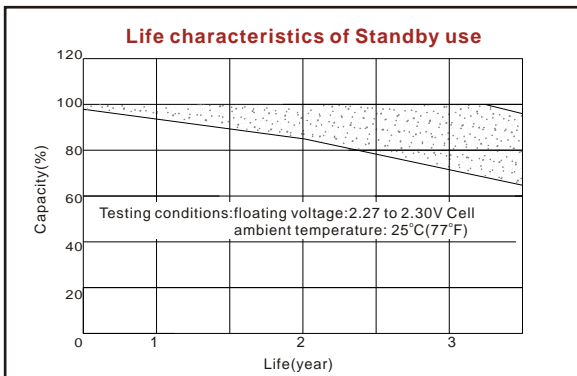
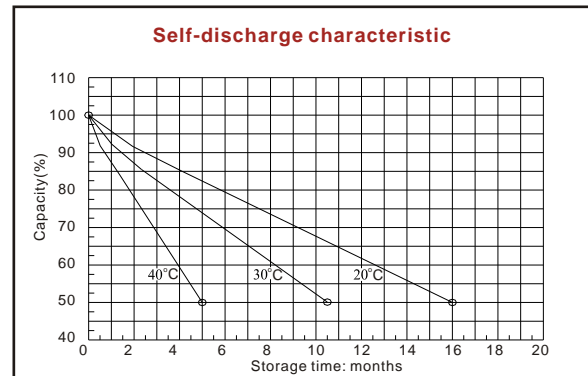
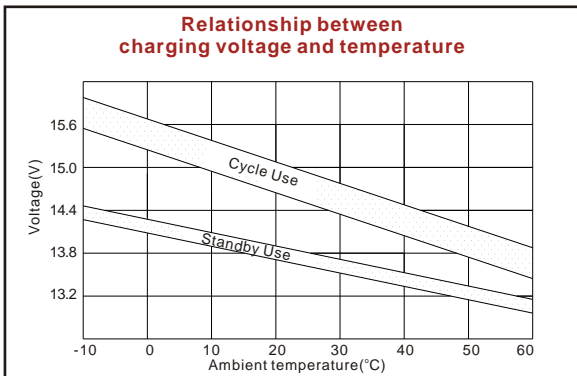
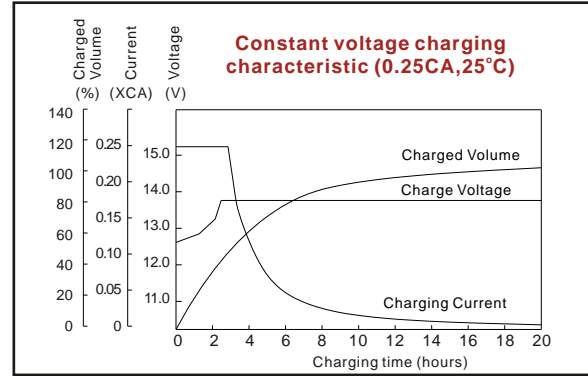
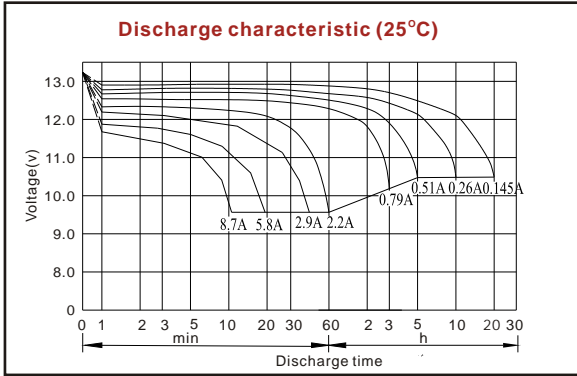
Discharge Constant Current (Amperes at 77°F25°C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
|----------------------|------|-------|-------|-------|------|------|------|------|-------|
| 1.60V | 13.8 | 9.00 | 7.13 | 4.20 | 2.20 | 0.85 | 0.55 | 0.29 | 0.160 |
| 1.65V | 13.1 | 8.57 | 6.82 | 4.04 | 2.12 | 0.82 | 0.54 | 0.28 | 0.150 |
| 1.70V | 12.3 | 8.12 | 6.48 | 3.86 | 2.04 | 0.79 | 0.52 | 0.27 | 0.150 |
| 1.75V | 11.6 | 7.67 | 6.15 | 3.67 | 1.95 | 0.77 | 0.51 | 0.26 | 0.145 |
| 1.80V | 10.9 | 7.22 | 5.81 | 3.48 | 1.85 | 0.73 | 0.49 | 0.26 | 0.140 |

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

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h |
|----------------------|------|-------|-------|-------|-------|------|------|------|------|
| 1.60V | 27.0 | 17.5 | 14.0 | 8.45 | 6.07 | 4.65 | 2.63 | 1.78 | 1.17 |
| 1.65V | 25.8 | 16.8 | 13.5 | 8.17 | 5.88 | 4.51 | 2.55 | 1.73 | 1.16 |
| 1.70V | 24.4 | 16.0 | 12.9 | 7.86 | 5.67 | 4.36 | 2.48 | 1.68 | 1.13 |
| 1.75V | 23.1 | 15.2 | 12.3 | 7.52 | 5.44 | 4.20 | 2.39 | 1.63 | 1.10 |
| 1.80V | 21.8 | 14.3 | 11.7 | 7.16 | 5.18 | 4.00 | 2.28 | 1.56 | 1.07 |

(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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www.vision-batt.com

Shenzhen Center Power Tech. Co., Ltd.
 Center Power Industrial Park, Tongfu Industrial District Dapeng Town, 518120 Shenzhen, China
 Tel: (+86-755) 8431 8088 Fax: (+86-755) 8431 8038 E-mail: sales@vision-batt.com