

CP1245E 12V 4.5Ah(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

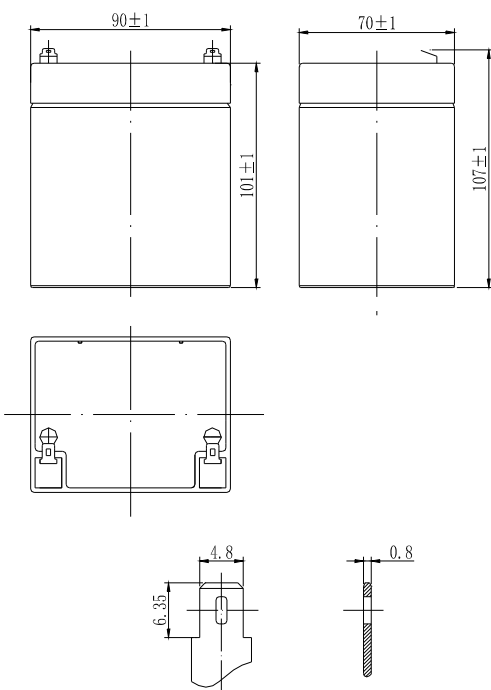
| Component | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|---------------|
| Raw material | Lead dioxide | Lead | ABS | ABS | Rubber | 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).....90 / 3.54
 Width(mm / inch).....70 / 2.76
 Height(mm / inch).....101 / 3.98
 Total Height(mm / inch).....107 / 4.21
 Approx. Weight(Kg / lbs).....1.55 / 3.41



Performance Characteristics

Nominal Voltage12V
 Number of cell6
 Design Life5 years
 Nominal Capacity 77°F(25°C)
 20 hour rate (0.225A, 10.5V)..... 4.5Ah
 10 hour rate (0.43A, 10.5V) 4.3Ah
 5 hour rate (0.69A, 10.5V)..... 3.45Ah
 1 hour rate (2.96A, 9.6V) 2.96Ah
 Internal Resistance
 Fully Charged battery 77°F(25°C)..... 41.5mOhms
 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)67.5A(5s)
 Short Circuit Current225A
 Charge Methods: Constant Voltage Charge 77°F(25°C)
 Cycle use 14.5-14.9V
 Maximum charging current 1.8A
 Temperature compensation-30mV/°C
 Standby use13.6-13.8V
 Temperature compensation-20mV/°C

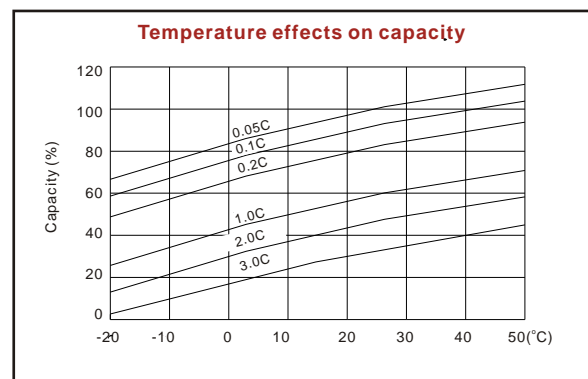
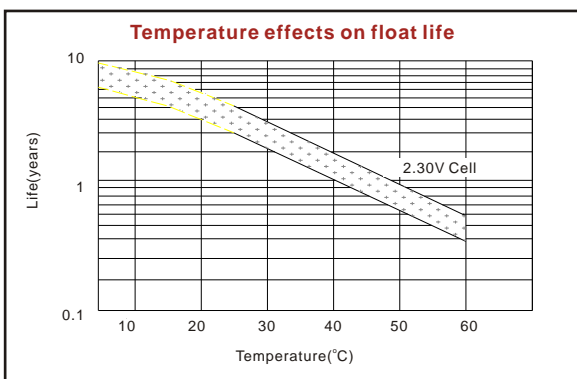
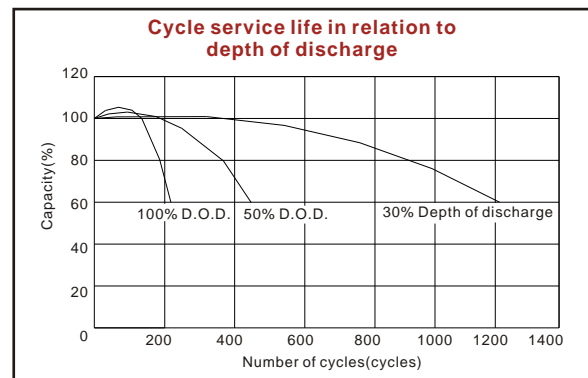
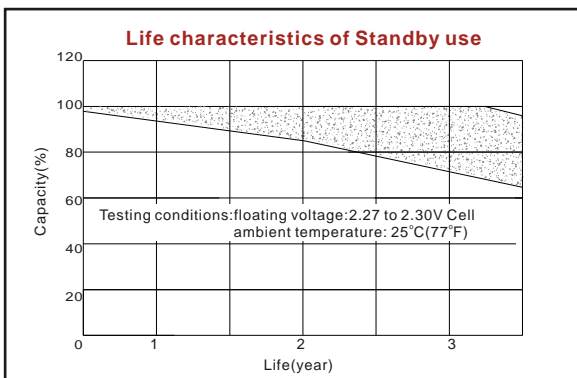
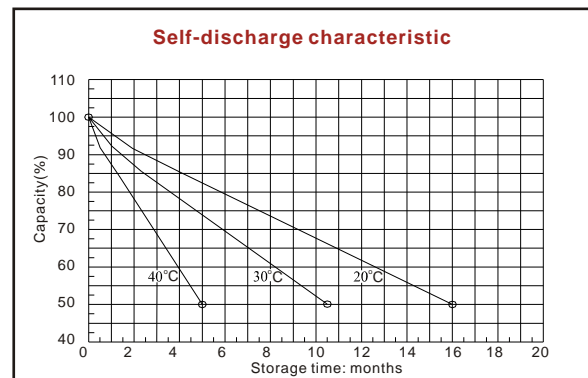
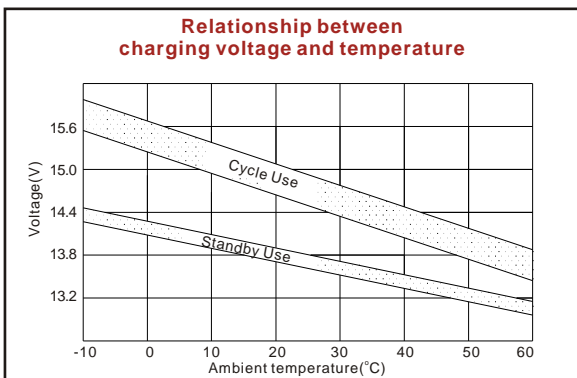
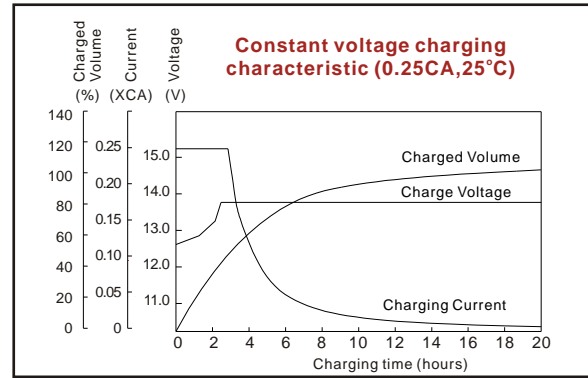
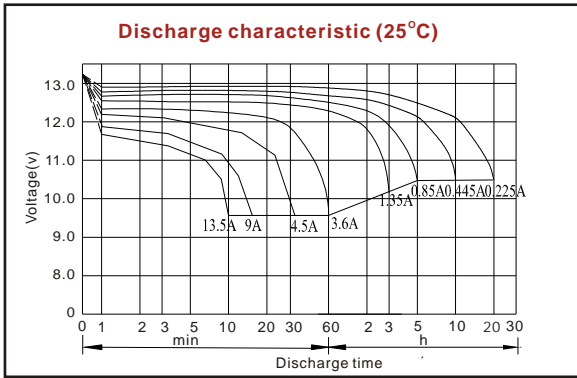
Discharge Constant Current (Amperes at 77°F25°C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
|----------------------|------|-------|-------|-------|------|------|------|------|-------|
| 1.60V | 15.3 | 12.4 | 8.64 | 4.63 | 2.96 | 1.20 | 0.76 | 0.46 | 0.233 |
| 1.65V | 14.5 | 11.8 | 8.26 | 4.44 | 2.86 | 1.16 | 0.74 | 0.45 | 0.231 |
| 1.70V | 13.6 | 11.2 | 4.97 | 4.25 | 2.74 | 1.12 | 0.71 | 0.44 | 0.228 |
| 1.75V | 12.8 | 10.6 | 7.45 | 4.04 | 2.62 | 1.07 | 0.69 | 0.43 | 0.225 |
| 1.80V | 11.9 | 9.98 | 7.03 | 3.83 | 2.50 | 1.03 | 0.67 | 0.42 | 0.221 |

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

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h |
|----------------------|------|-------|-------|-------|-------|------|------|------|------|
| 1.60V | 30.4 | 21.3 | 16.98 | 9.22 | 7.44 | 5.22 | 3.35 | 2.43 | 1.56 |
| 1.65V | 28.5 | 20.1 | 16.02 | 8.76 | 7.10 | 5.01 | 3.24 | 2.37 | 1.54 |
| 1.70V | 26.6 | 18.8 | 15.15 | 8.28 | 6.75 | 4.77 | 3.13 | 2.31 | 1.51 |
| 1.75V | 24.8 | 17.6 | 14.19 | 7.80 | 6.38 | 4.54 | 3.01 | 2.24 | 1.47 |
| 1.80V | 22.9 | 16.42 | 13.22 | 7.31 | 6.01 | 4.29 | 2.89 | 2.16 | 1.44 |

(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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