

CP620S 6V 2Ah(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

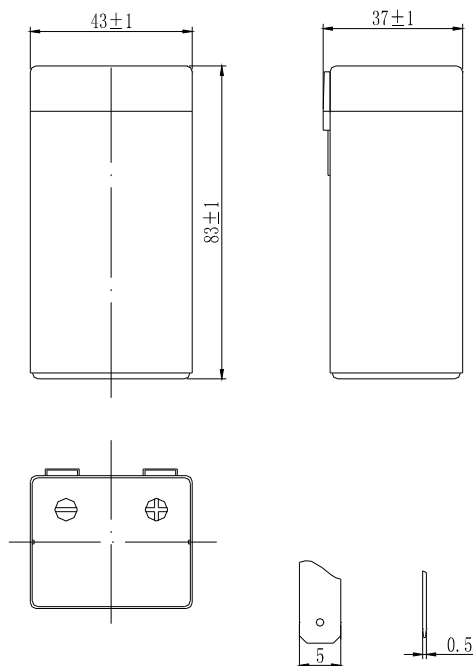
| Component | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|---------------|
| Raw material | Lead dioxide | Lead | ABS | ABS | Rubber | 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).....43 / 1.69
 Width(mm / inch).....37 / 1.46
 Height(mm / inch).....83 / 3.27
 Total Height(mm / inch).....83 / 3.27
 Approx. Weight(Kg / lbs).....0.35 / 0.77



Performance Characteristics

Nominal Voltage6V
 Number of cell3
 Design Life 5 years
 Nominal Capacity 77°F(25°C)
 20 hour rate (0.1A, 5.25V)..... 2Ah
 10 hour rate (0.19A, 5.25V).....1.9Ah
 5 hour rate (0.37A, 5.25V).....1.85Ah
 1 hour rate (1.46A, 4.8V)1.46Ah
 Internal Resistance
 Fully Charged battery 77°F(25°C)..... 42mOhms
 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)30A(5s)
 Short Circuit Current 100A
 Charge Methods: Constant Voltage Charge 77°F(25°C)
 Cycle use 7.25-7.45V
 Maximum charging current 0.8A
 Temperature compensation-15mV/°C
 Standby use 6.8-6.9V
 Temperature compensation-10mV/°C

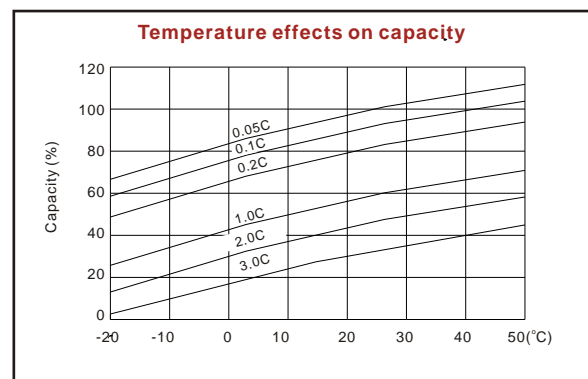
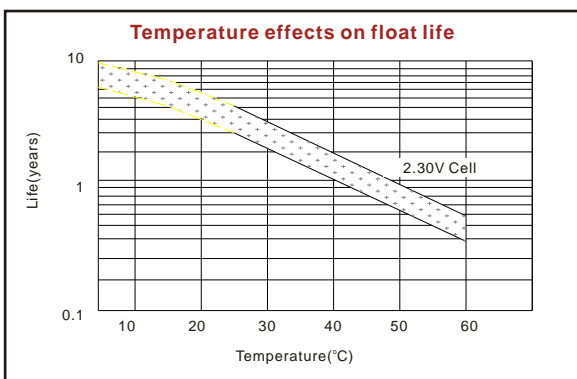
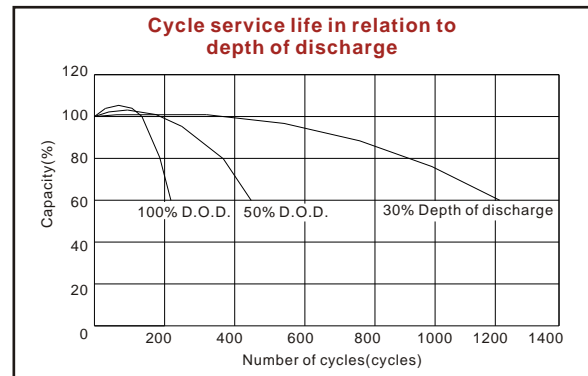
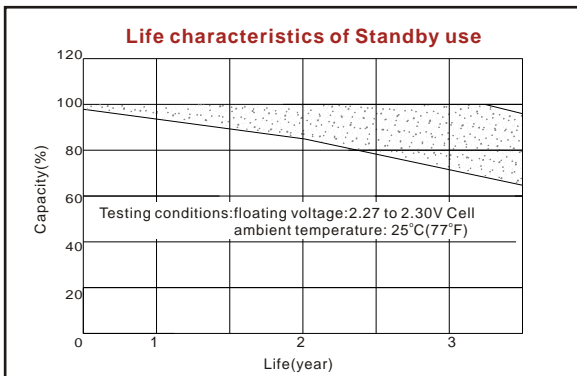
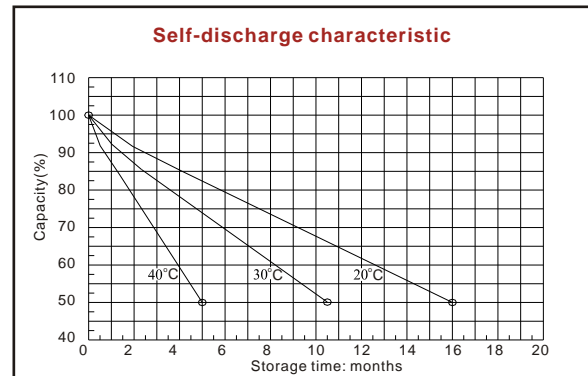
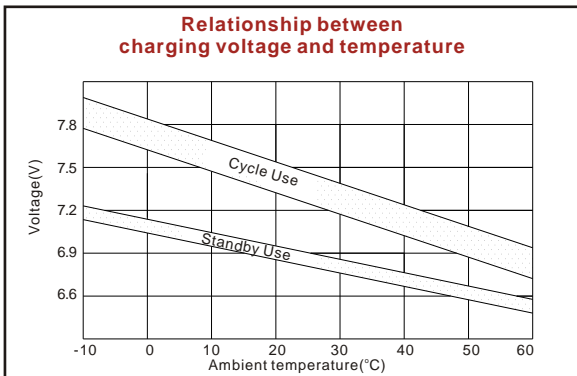
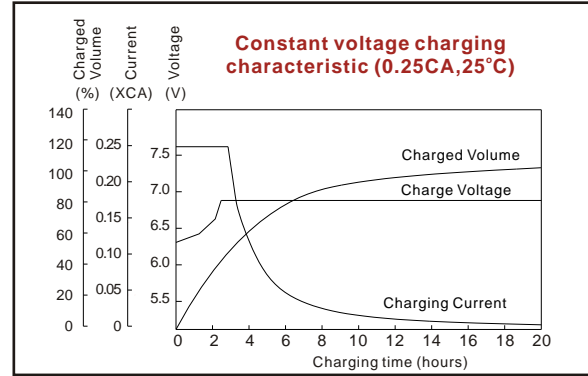
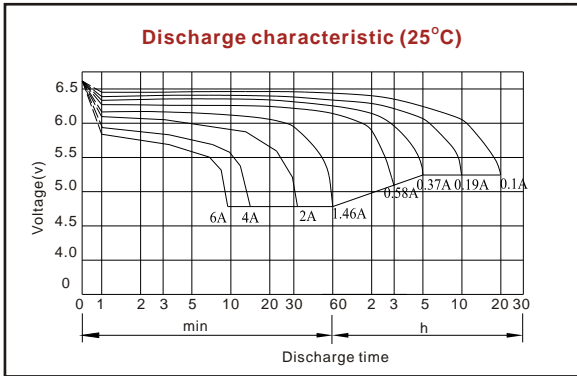
Discharge Constant Current (Amperes at 77°F25°C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
|----------------------|------|-------|-------|-------|------|------|------|------|-----|
| 1.60V | 7.95 | 5.36 | 3.75 | 2.59 | 1.46 | 0.62 | 0.40 | 0.19 | 0.1 |
| 1.65V | 7.54 | 5.10 | 3.59 | 2.49 | 1.41 | 0.61 | 0.39 | 0.19 | 0.1 |
| 1.70V | 7.11 | 4.84 | 3.41 | 2.38 | 1.35 | 0.58 | 0.38 | 0.19 | 0.1 |
| 1.75V | 6.67 | 4.57 | 3.24 | 2.26 | 1.29 | 0.55 | 0.37 | 0.19 | 0.1 |
| 1.80V | 6.22 | 4.29 | 3.05 | 2.15 | 1.23 | 0.53 | 0.37 | 0.19 | 0.1 |

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

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h |
|----------------------|------|-------|-------|-------|-------|------|------|------|------|
| 1.60V | 14.5 | 9.79 | 7.46 | 4.29 | 2.96 | 2.56 | 1.64 | 1.22 | 0.80 |
| 1.65V | 13.6 | 9.22 | 7.06 | 4.07 | 2.82 | 2.46 | 1.59 | 1.19 | 0.79 |
| 1.70V | 12.7 | 8.65 | 6.65 | 3.85 | 2.68 | 2.34 | 1.54 | 1.16 | 0.77 |
| 1.75V | 11.8 | 8.08 | 6.24 | 3.63 | 2.54 | 2.23 | 1.48 | 1.13 | 0.75 |
| 1.80V | 10.9 | 7.51 | 5.82 | 3.40 | 2.39 | 2.11 | 1.42 | 1.09 | 0.74 |

(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.



ISO9001:2000

MH25860

G4M19906-9202-E-16

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