Product Specification sheet

Cat # K3010 Powermaster ® 12V 1.2AH Sealed Lead Acid Battery

Features

- Multi-cell design for economy of installation and maintenance
- Individual valve for each cell
- High quality ABS case and cover
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance
- Not restricted for air transport
- Not restricted for surface transport
- Long life
- Float/cycle use
- Low self-discharge rate
- Use in any position

Specifications

Nominal Voltage (V).....12 volts (6 cells in series)

Nominal Capacity (AH)
20 hour rate F.V. (1.75V/cell) (350mA to 10.5 volts).....1.2A.H.
10 hour rate F.V. (1.75V/cell) (644mA to 10.5 volts).....1.1A.H.
5 hour rate F.V. (1.75V/cell) (1190mA to 10.2 volts).....1.0A.H.
1 hour rate F.V. (1.75V/cell) (4200mA to 9.60 volts).....0.7A.H.

Weight (Grams).....560g (appox)

Terminal.....Type ST1

Internal Resistance (fully charged battery).....<100mΩ

Maximum discharge current for 5 seconds (A).....18A

Maximum charge current (A).....0.36A

Ambient temperature
Charge.....0°C~+40°C
Discharge.....-20°C~+50°C
Storage.....-20°C~+50°C

Vibration Test (2000 cycles/minute, 2.5mm excursion, 2 hours).....No loss in capacity or performance

Shelf Life (% of nominal capacity at 20°C ±2°C)
3 months.....93%
6 months.....83%

Case.....ABS

Dimensions (mm)
Length ±1mm.....97mm
Width ±1mm.....47.5mm
Container Height ±1mm.....52mm
Total height ±2mm.....58mm

Application.....UPS, PABX, Security, Laboratory

www.accesscomms.com.au/specs/K3010spec.pdf

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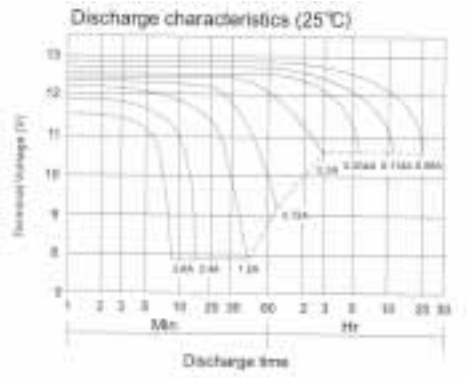
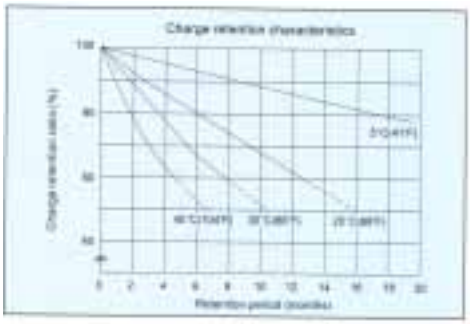
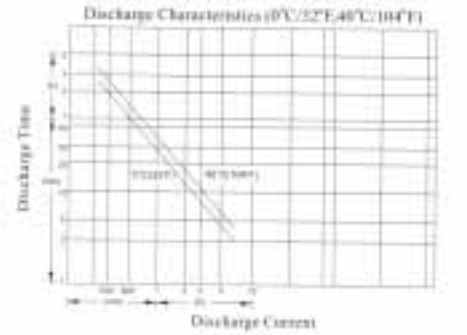
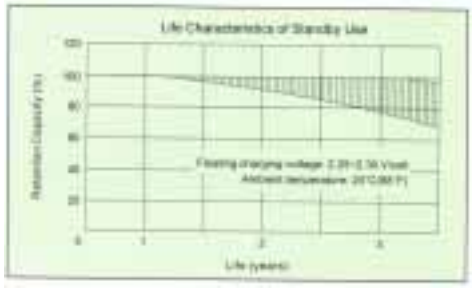


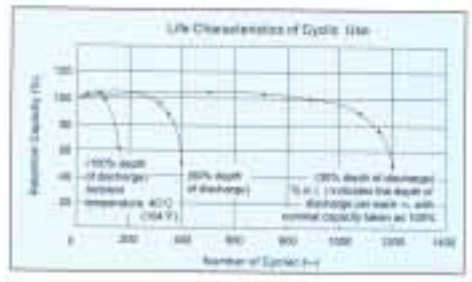






Charging Voltage 20 ℃

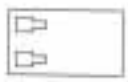
Charge Method	Voltage Setting	Time	Highest Charging Current	Remarks
Floating	13.65 ± 0.15	16 Hours	Unlimited	When used frequently under 0℃ or above 40℃,the voltage must be adjusted by -18mV/℃cycling 20℃ as reference.
Cycling	14.4 ~ 15	16 Hours	0.36A	When used frequently under 5℃ or above 35℃,the voltage must be adjusted by -24mV/℃cycling 20℃ as reference.



OUTER DIMENSIONS mm

TERMINAL DIMENSIONS mm

TERMINAL POSITION



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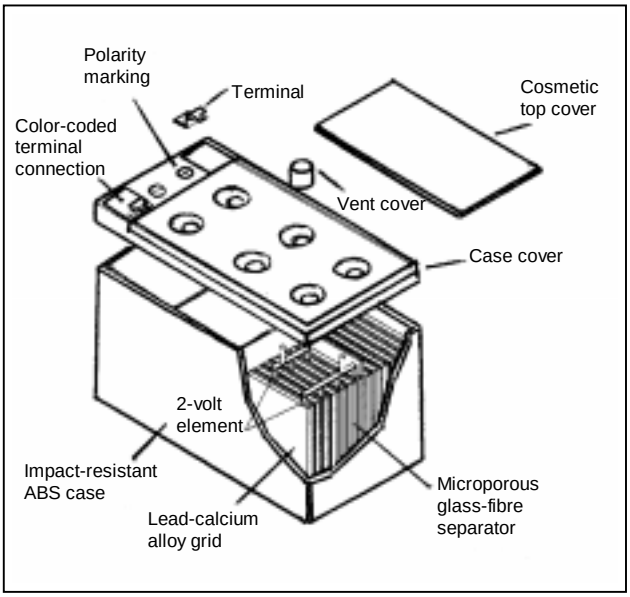
Cat # K3010 Powermaster ® 12V 1.2AH Sealed Lead Acid Battery	

CONSTRUCTION



Plates (Electrodes)

Plate construction is the key to producing a good battery. Powermaster® sealed lead-acid rechargeable batteries are constructed using the latest technology and equipment to cast grids from a lead-calcium alloy, free of antimony. The small amount of calcium and tin in the grid alloy imparts strength to the plate and guarantees durability even in extensive life-cycle service. Lead oxide paste is added to the grid to form the electrically active material. In the charged state, the negative plate paste is pure lead and the positive plate paste is lead oxide. Both of these are in a porous or spongy form to optimise surface area and thereby maximise capacity.

Electrolyte

Immobilised dilute sulphuric acid: H_2SO_4.

Separators

The plate separators used in Powermaster® sealed lead-acid rechargeable batteries are made of woven glass fibre cloth with high heat and oxidation resistance. This material also offers superior electrolyte absorption and retention and is an excellent ion conductor.

Relief Valve

In case of excessive gas pressure build-up inside the battery (usually caused by abnormal charging) the relief valve will open and relieve the pressure. The one-way valve not only ensures that no air gets into the battery where the oxygen would react with the plates causing internal discharge, but it also represents an important safety device in the event of excessive overcharge. Vent release pressure is between 2-6 psi. The seal ring material is neoprene rubber.

Terminals

The AMP quick-connect type terminals are constructed of tin plated brass and sealed with a special epoxy material.

Container

The ABS housing is resistant to chemicals and flammability.

Case Sealing

The tongue and groove joint is polyurethane sealed.