



# PS-1223 12 Volt 2.3 AH

## Rechargeable Sealed Lead Acid Battery



We've Got The Power.™



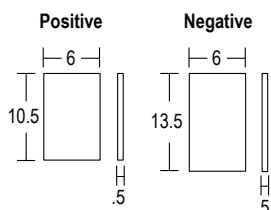
### Features

- Absorbent Glass Mat (AGM) technology for superior performance
- Valve regulated, spill proof construction allows safe operation in any position
- Power/volume ratio yielding unrivaled energy density
- Rugged impact resistant ABS case and cover (UL94-HB)
- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified
- U.L. recognized under file number MH 20845

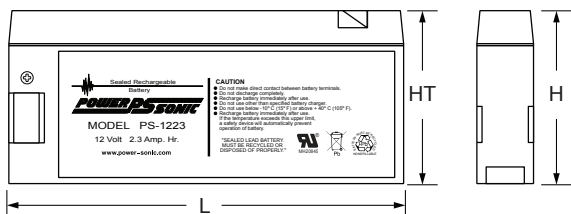
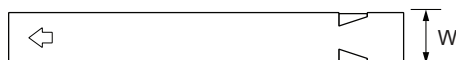
### Terminals

(mm)

- Pressure Contacts



### Physical Dimensions: in (mm)



L: 7.17 (182) W: 0.94 (24) H: 2.40 (61) HT: 2.40 (61)

Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

### Performance Specifications

**Nominal Voltage** ..... 12 volts (6 cells)

#### Nominal Capacity

20-hr. (115mA to 10.50 volts) .....	2.30 AH
10-hr. (225mA to 10.50 volts) .....	2.25 AH
5-hr. (390mA to 10.20 volts) .....	1.95 AH
1-hr. (1.38A to 9.00 volts) .....	1.38 AH
15-min. (4.5A to 9.00 volts) .....	1.13 AH

**Approximate Weight** ..... 1.70 lbs. (0.77 kg)

**Energy Density** (20-hr. rate) ..... 1.71 W-h/in<sup>3</sup> (104.12 W-h/l)

**Specific Energy** (20-hr. rate) ..... 16.24 W-h/lb (35.79 W-h/kg)

**Internal Resistance** (approx.) ..... This battery is protected by a bimetal circuit breaker. If the current discharge temperature rises above design limits the breaker is activated

**Max Discharge Current** (7 Min.) ..... 6.9 amperes

**Max Short-Duration Discharge Current** (10 Sec.)..... n/a - battery is fused

**Shelf Life** (% of nominal capacity at 68° F (20° C))

1 Month .....	97%
3 Months.....	91%
6 Months .....	83%

#### Operating Temperature Range

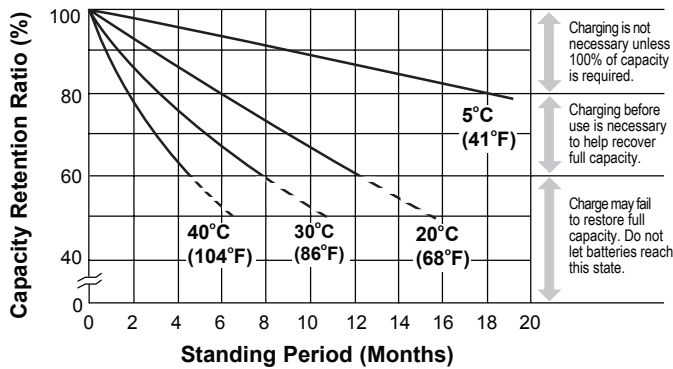
Charge .. 15° F (-10° C) to 105° F (40° C)

Discharge..... 15° F (-10° C) to 105° F (40° C)

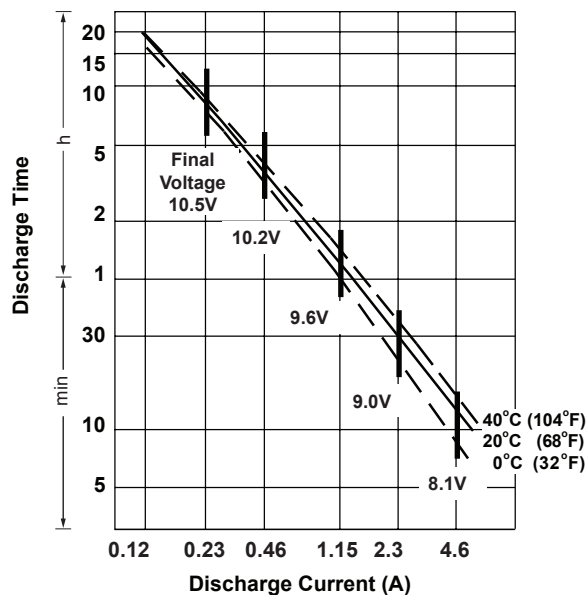
**Case** ..... ABS Plastic

**Power-Sonic Chargers** ..... PSC-12300A

### Shelf Life & Storage



### Discharge Time vs. Discharge Current



### Charging

**Cycle Applications:** Limit initial current to 690mA. Charge until battery voltage (under charge) reaches 14.4 to 14.7 volts at 68°F (20°C). Hold at 14.4 to 14.7 volts until current drops to under 23mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

**"Float" or "Stand-By" Service:** Hold battery across constant voltage source of 13.5 to 13.8 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

**Note:** Due to the self-discharge characteristics of this type of battery, it is imperative that they be charged within 6 months of storage, otherwise permanent loss of capacity might occur as a result of sulfation.

### Chargers

Power-Sonic offers a wide range of chargers suitable for batteries up to 100AH. Please refer to the Charger Selection Guide in our specification sheets for "C-Series Switch Mode Chargers" and "Transformer Type A and F Series". Please contact our Technical department for advice if you have difficulty in locating suitable models.

### Contact Information

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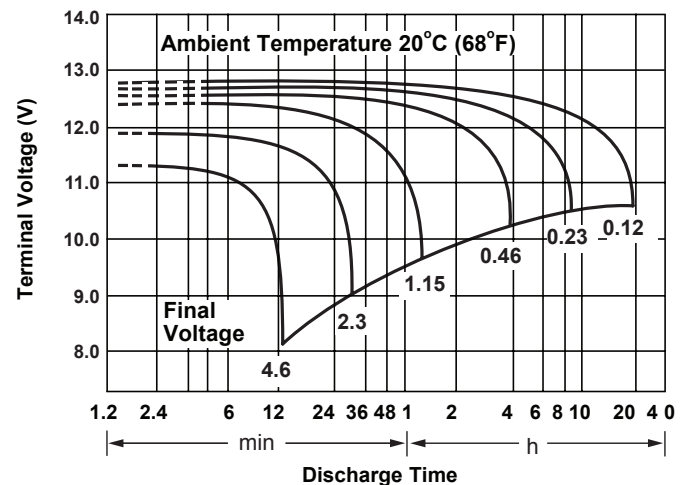
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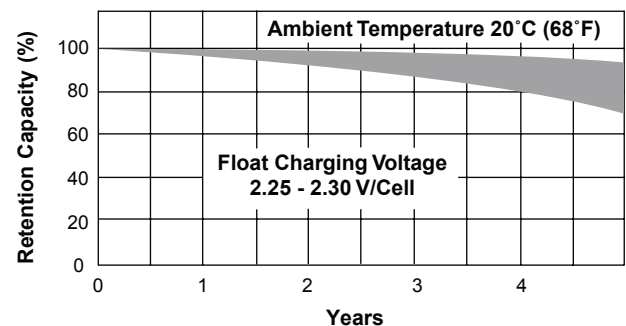
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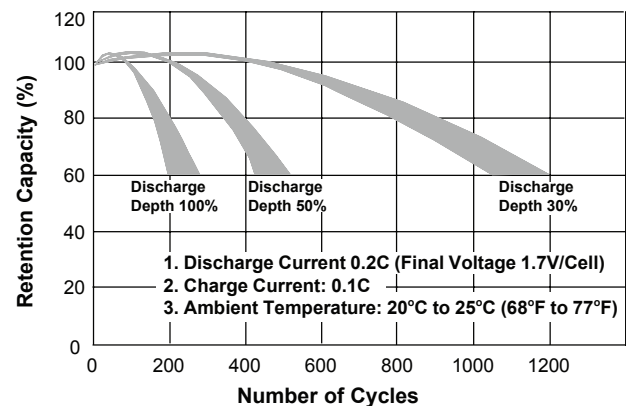
### Discharge Characteristics



### Life Characteristics in Stand-By Use



### Life Characteristics in Cyclic Use



### Further Information

Please refer to our website [www.power-sonic.com](http://www.power-sonic.com) for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc..

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