

## PS-1238 12 Volt 3.8 AH

### Rechargeable Sealed Lead Acid Battery

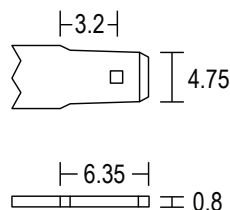


We've Got The Power.™

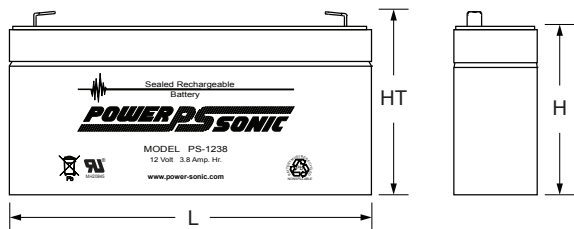


### Terminals (mm)

- F1 - Quick disconnect tabs, 0.187" x 0.032" - Mate with AMP. INC. FASTON "187" series



### Physical Dimensions: in (mm)



L: 7.68 (195) W: 1.85 (47) H: 2.91 (74) HT: 2.99 (76)

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

### 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

### Performance Specifications

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

**Nominal Capacity**

|                                     |         |
|-------------------------------------|---------|
| 20-hr. (190mA to 10.50 volts) ..... | 3.80 AH |
| 10-hr. (350mA to 10.50 volts) ..... | 3.50 AH |
| 5-hr. (640mA to 10.20 volts) .....  | 3.20 AH |
| 1-hr. (2.4A to 9.00 volts) .....    | 2.40 AH |
| 15-min. (7.4A to 9.00 volts).....   | 1.85 AH |

**Approximate Weight** ..... 3.50 lbs. (1.59 kg)

**Energy Density** (20-hr. rate) ..... 1.10 W-h/in<sup>3</sup> (67.30 W-h/l)

**Specific Energy** (20-hr. rate) ..... 13.03 W-h/lb (28.72 W-h/kg)

**Internal Resistance** (approx.) ..... 45 milliohms

**Max Discharge Current** (7 Min.) ..... 11.4 amperes

**Max Short-Duration Discharge Current** (10 Sec.)..... 38.0 amperes

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

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

**Operating Temperature Range**

|                |                               |
|----------------|-------------------------------|
| Charge.. ..... | -4°F (-20°C) to 122°F (50°C)  |
| Discharge..... | -40°F (-40°C) to 140°F (60°C) |

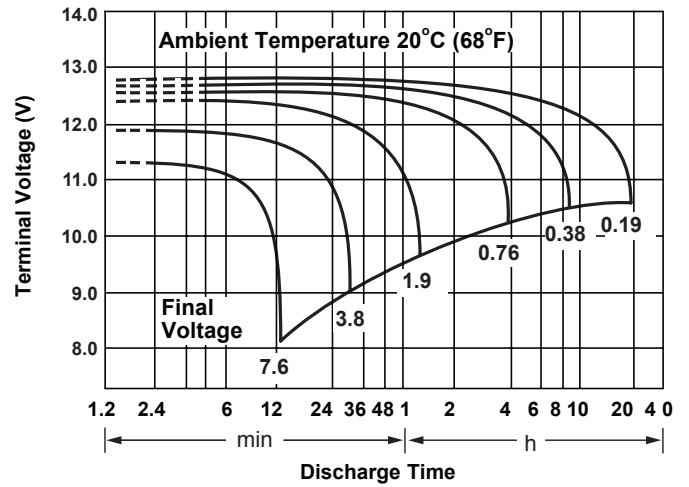
**Case** ..... ABS Plastic

**Power-Sonic Chargers** ..... PSC-12300A, 12500A

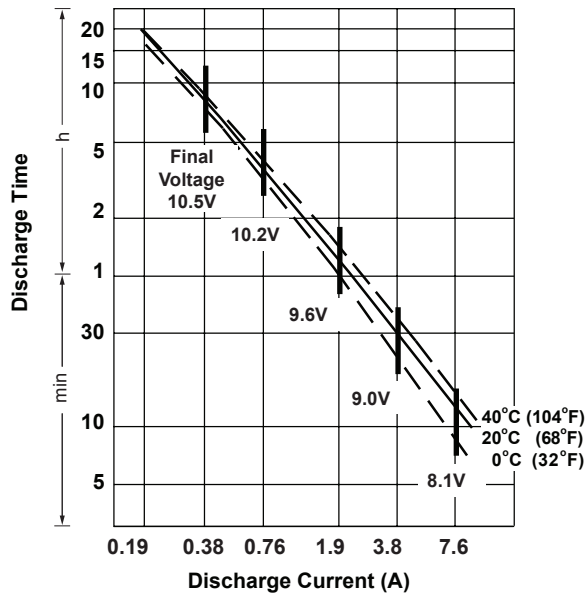
**Shelf Life & Storage**



**Discharge Characteristics**



**Discharge Time vs. Discharge Current**



**Life Characteristics in Stand-By Use**



**Life Characteristics in Cyclic Use**



**Charging**

**Cycle Applications:** Limit initial current to 1.14A. 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 38mA. 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.

**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..

**Contact Information**

[www.power-sonic.com](http://www.power-sonic.com)

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