

## PS-1228 12 Volt 2.8 AH

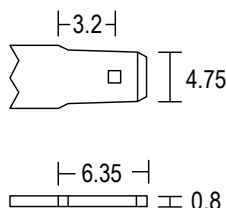
### Rechargeable Sealed Lead Acid Battery



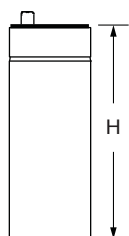
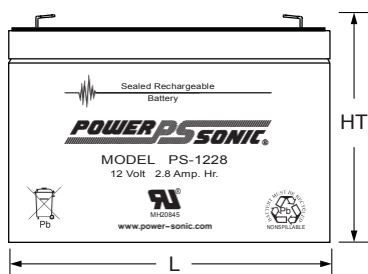
#### Terminals

(mm)

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



#### Physical Dimensions: in (mm)



L: 5.24 (133) W: 1.30 (33) H: 3.82 (97) HT: 4.09 (104)

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. (140mA to 10.50 volts) .....	2.80 AH
10-hr. (250mA to 10.50 volts) .....	2.50 AH
5-hr. (480mA to 10.20 volts) .....	2.40 AH
1-hr. (1.7A to 9.00 volts) .....	1.70 AH
15-min. (5.3A to 9.00 volts) .....	1.33 AH

**Approximate Weight** ..... 2.60 lbs. (1.18 kg)

**Energy Density** (20-hr. rate) ..... 1.29 W-h/in<sup>3</sup> (78.80 W-h/l)

**Specific Energy** (20-hr. rate) ..... 12.92 W-h/lb (28.49 W-h/kg)

**Internal Resistance** (approx.) ..... 60 milliohms

**Max Discharge Current** (7 Min.) ..... 8.4 amperes

**Max Short-Duration Discharge Current** (10 Sec.)..... 28.0 amperes

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

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

#### Operating Temperature Range

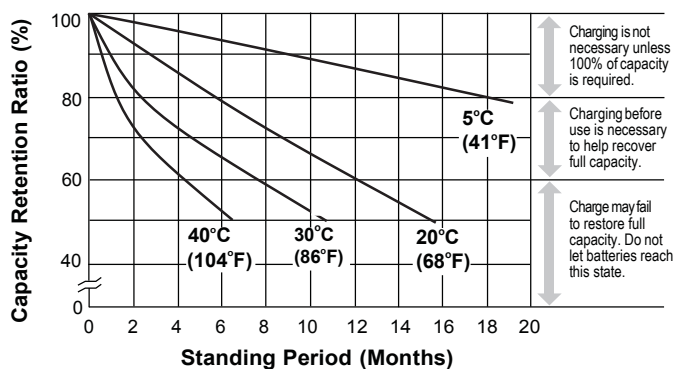
Charge.. ..... -4 °F (-20 °C) to 122 °F (50 °C)

Discharge..... -40 °F (-40 °C) to 140 °F (60 °C)

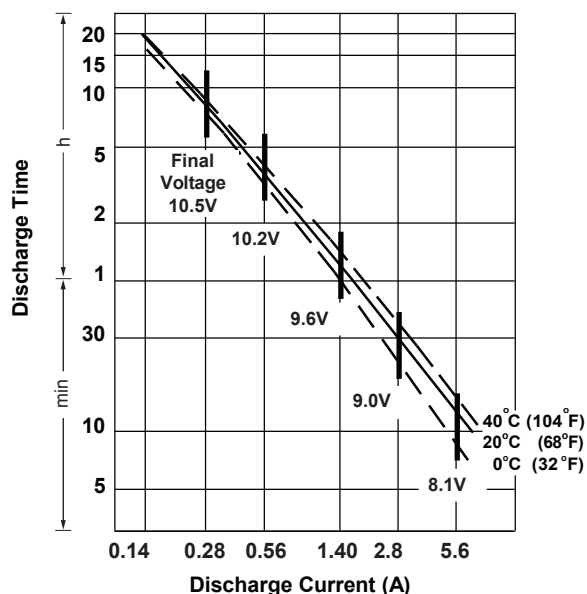
**Case** ..... ABS Plastic

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

### Shelf Life & Storage



### Discharge Time vs. Discharge Current



### Charging

**Cycle Applications:** Limit initial current to 840mA. 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 28mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

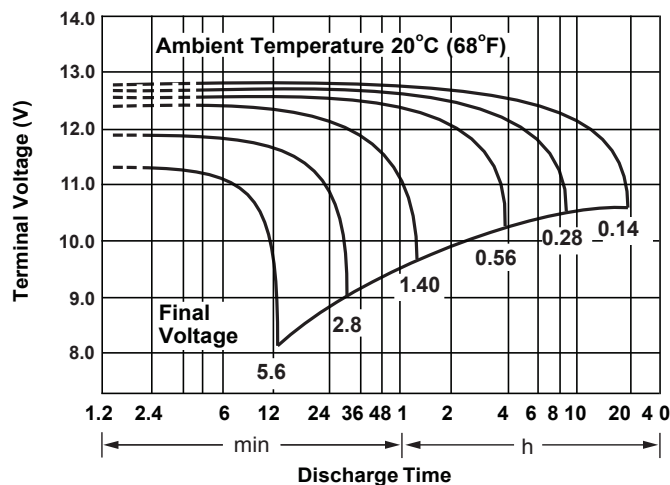
**"Float" or "Stand-By" Service:** Hold battery across constant voltage source of 13.5 to 13.8 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

**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.

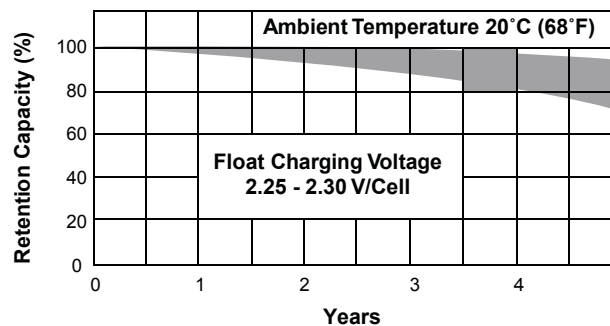
### Chargers

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.

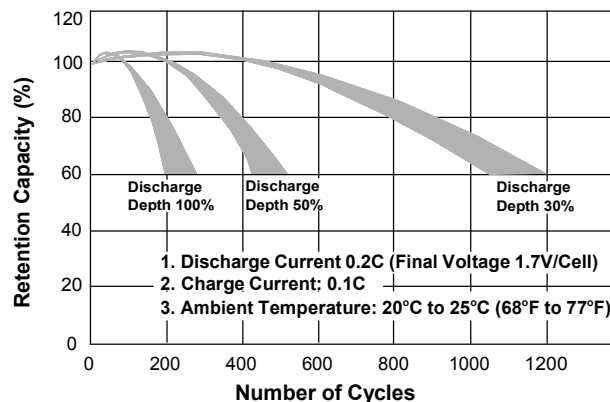
### Discharge Characteristics



### 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..