

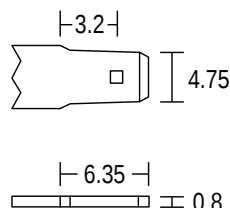
## PS-832 8 Volt 3.2 AH

### Rechargeable Sealed Lead Acid Battery

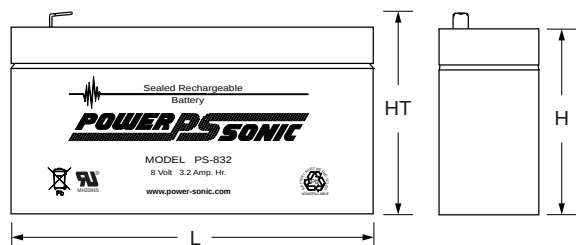


#### Terminals (mm)

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



#### Physical Dimensions: in (mm)



L: 5.29 (134) W: 1.42 (36) H: 2.49 (63) HT: 2.70 (69)

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** .....8 volts (4 cells)

#### Nominal Capacity

|                                    |        |
|------------------------------------|--------|
| 20-hr. (160mA to 7.00 volts) ..... | 3.2 AH |
| 10-hr. (300mA to 7.00 volts) ..... | 3.0 AH |
| 5-hr. (540mA to 6.80 volts) .....  | 2.7 AH |
| 1-hr. (2.0A to 6.00 volts) .....   | 2.0 AH |
| 15-min. (6.0A to 6.00 volts) ..... | 1.5 AH |

**Approximate Weight** ..... 1.65 lbs. (0.75 kg)

**Energy Density** (20-hr. rate) ..... 1.37 W-h/in<sup>3</sup> (83.52 W-h/l)

**Specific Energy** (20-hr. rate) ..... 15.52 W-h/lb (34.21 W-h/kg)

**Internal Resistance** (approx.) ..... 25 milliohms

**Max Discharge Current** (7 Min.) ..... 9.6 amperes

**Max Short-Duration Discharge Current** (10 Sec.)..... 32.0 amperes

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

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

#### Operating Temperature Range

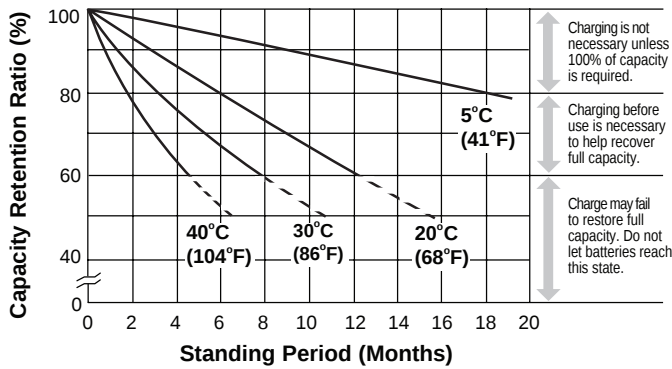
Charge.. ..... -4°F (-20°C) to 122°F (50°C)

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

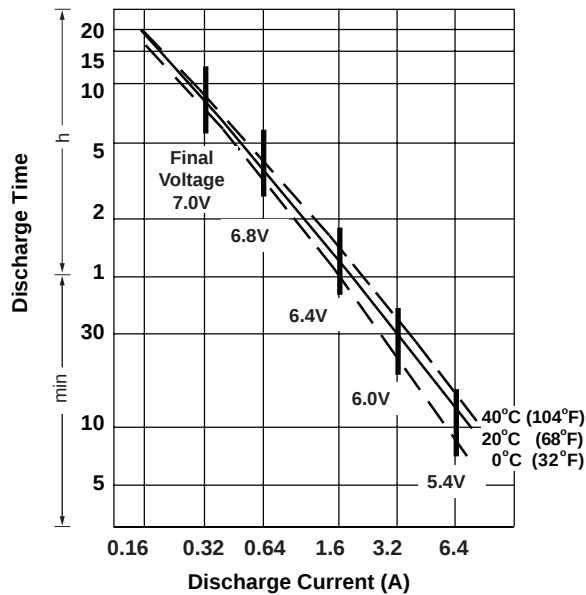
**Case** ..... ABS Plastic

**Power-Sonic Chargers** ..... n/a

### Shelf Life & Storage



### Discharge Time vs. Discharge Current



### Charging

**Cycle Applications:** Limit initial current to 960mA. Charge until battery voltage (under charge) reaches 9.6 to 9.8 volts at 68°F (20°C). Hold at 9.6 to 9.8 volts until current drops to under 32mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

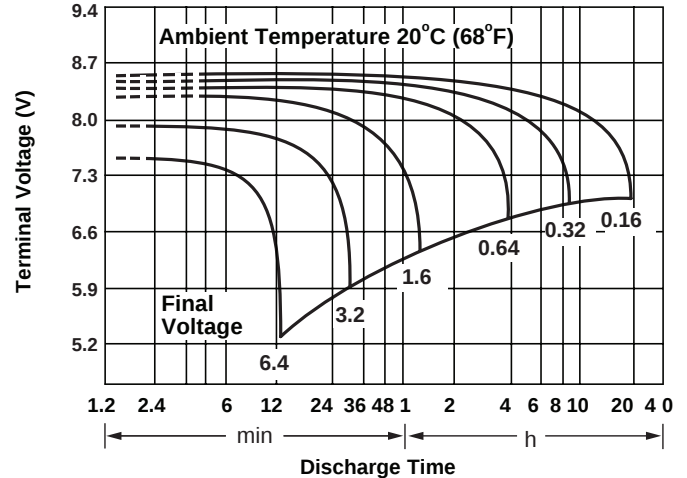
**"Float" or "Stand-By" Service:** Hold battery across constant voltage source of 9.0 to 9.2 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

**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.

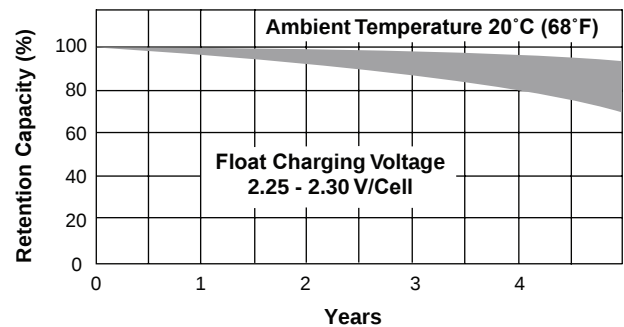
### Chargers

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.

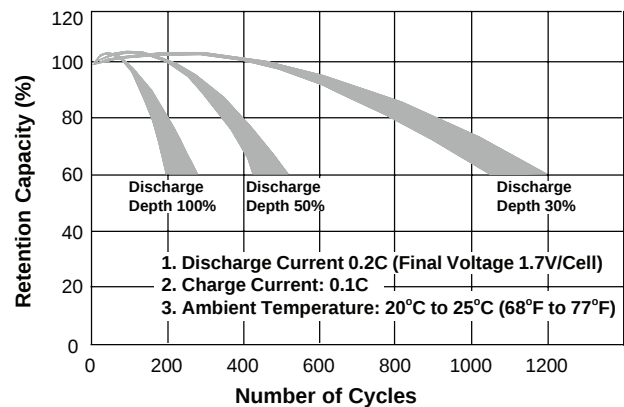
### Discharge Characteristics



### 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..

### Contact Information

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