



# PSG-450 4 Volt 5.0 AH

## Rechargeable Sealed Lead Acid Battery



We've Got The Power.™

This model has been discontinued. Specs are for reference only.

### Features

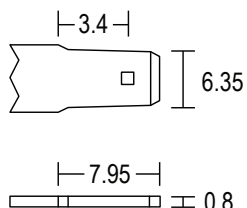
- Absorbent Glass Mat (AGM) technology for superior performance
- Valve regulated, spill proof construction allows safe operation in any position
- Power/volume ratio yielding unrivaled energy density
- Rugged impact resistant ABS case and cover (UL94-HB)
- Approved for transport by air. D.O.T., I.A.T.A.,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



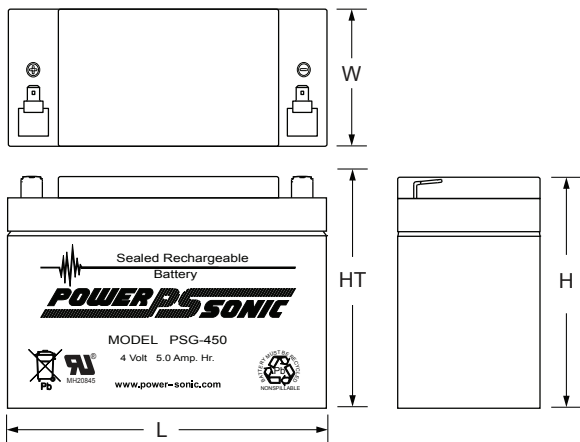
### Terminals

(mm)

- F2 - Quick disconnect tabs, 0.250" x 0.032"
- Mate with AMP. INC FASTON "250" series



### Physical Dimensions: in (mm)



L: 3.54 (90) W: 1.94 (49) H: 2.87 (73) HT: 2.87 (73)

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** .....4 volts (2 cells)

#### Nominal Capacity

20-hr. (250mA to 3.5 volts) .....	5.0 AH
10-hr. (470mA to 3.50 volts) .....	4.7 AH
5-hr. (860mA to 3.40 volts) .....	4.8 AH
1-hr. (3.1A to 3.00 volts) .....	3.0 AH

**Approximate Weight** ..... 1.40 lbs. (0.64 kg)

**Energy Density** (20-hr. rate) ..... 1.01 W-h/in<sup>3</sup> (61.92 W-h/l)

**Specific Energy** (20-hr. rate) ..... 14.29 W-h/lb (31.49 W-h/kg)

**Internal Resistance** (approx.) ..... 15 milliohms

**Max Discharge Current** (7 Min.) ..... 15 amperes

**Max Short-Duration Discharge Current** (10 Sec.)..... 50.0 amperes

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

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

#### Operating Temperature Range

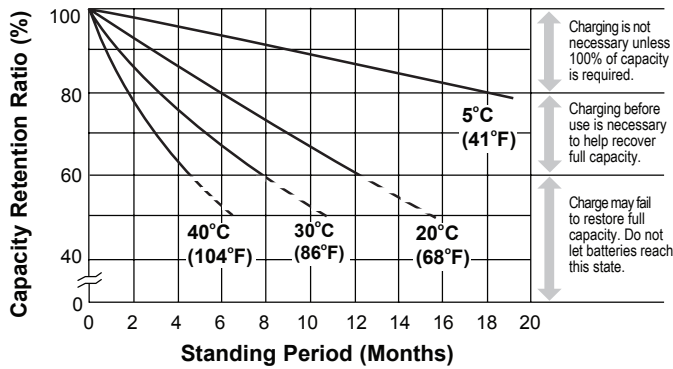
Charge.. ..... -4° F (-20° C) to 122° F (50° C)

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

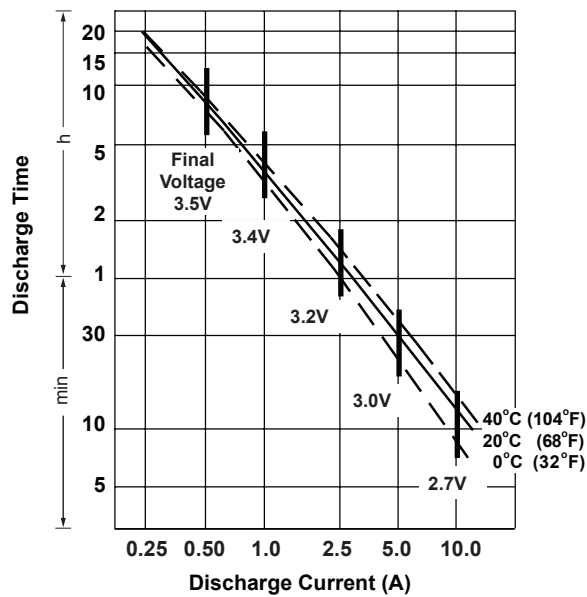
**Case** ..... ABS Plastic

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

### Shelf Life & Storage



### Discharge Time vs. Discharge Current



### Charging

**Cycle Applications:** Limit initial current to 1.50A. Charge until battery voltage (under charge) reaches 4.8 to 5.0 volts at 68°F (20°C). Hold at 4.8 to 5.0 volts until current drops to under 50mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

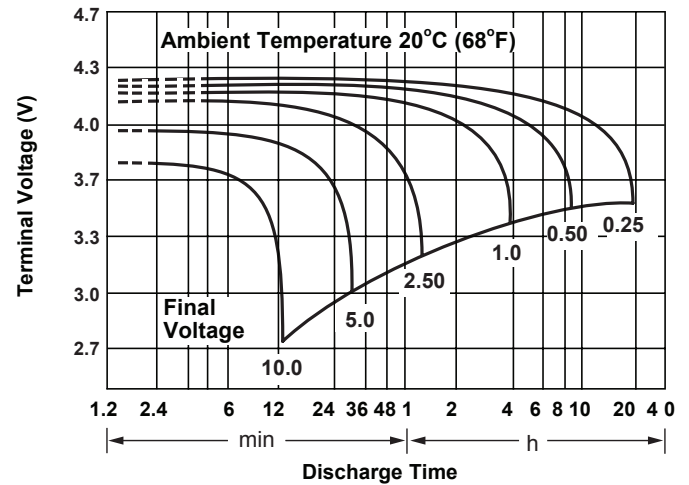
**"Float" or "Stand-By" Service:** Hold battery across constant voltage source of 4.5 to 4.6 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

**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.

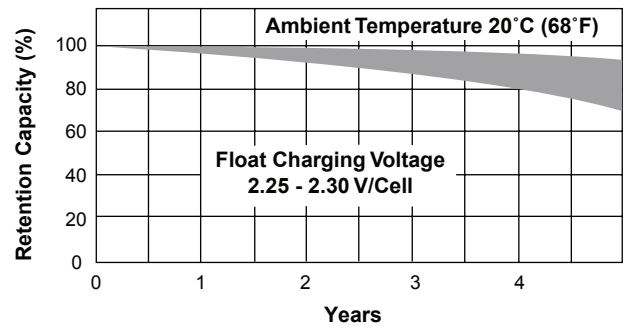
### Chargers

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

