

## PS-445 4 Volt 4.5 AH

### Rechargeable Sealed Lead Acid Battery



We've Got The Power.™



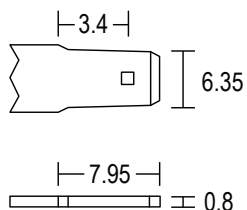
### Features

- 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

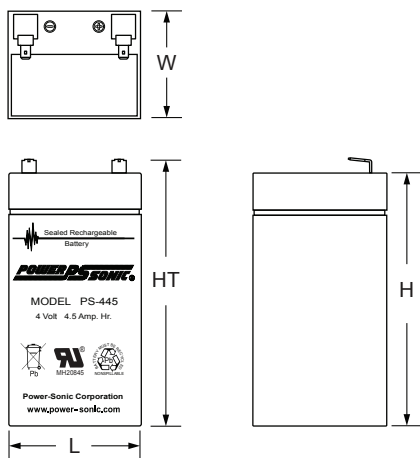
### Terminals

(mm)

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



### Physical Dimensions: in (mm)



L: 1.89 (48) W: 2.09 (53) H: 3.70 (94) HT: 3.86 (98)

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. (225mA to 3.5 volts) .....	4.5 AH
10-hr. (420mA to 3.50 volts) .....	4.2 AH
5-hr. (765mA to 3.40 volts) .....	3.8 AH
1-hr. (2.7A to 3.00 volts) .....	2.7 AH
15-min. (8.5A to 2.70 volts) .....	2.1 AH

**Approximate Weight** ..... 1.30 lbs. (0.59 kg)

**Energy Density** (20-hr. rate) ..... 1.23 W-h/in<sup>3</sup> (75.16 W-h/l)

**Specific Energy** (20-hr. rate) ..... 13.85 W-h/lb (30.53 W-h/kg)

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

**Max Discharge Current** (7 Min.) ..... 13.5 amperes

**Max Short-Duration Discharge Current** (10 Sec.)..... 45.0 amperes

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

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

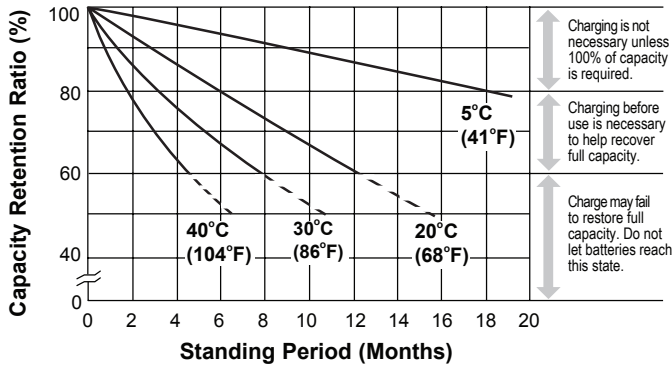
#### Operating Temperature Range

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

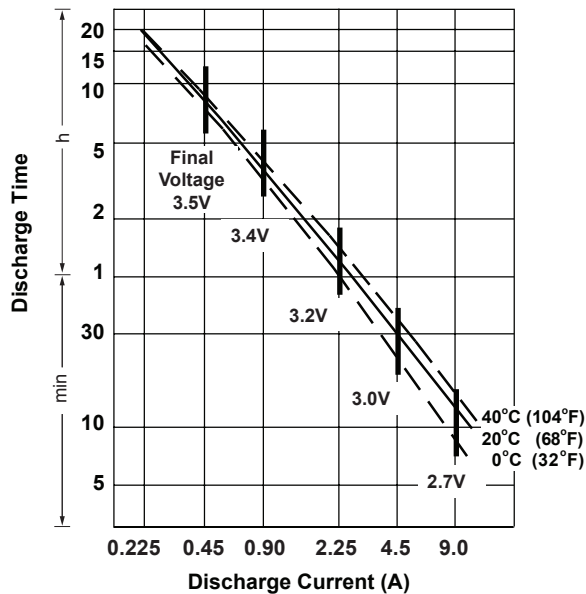
**Case** ..... ABS Plastic

**Power-Sonic Chargers** ..... 3 batteries in series with PSC-12500A

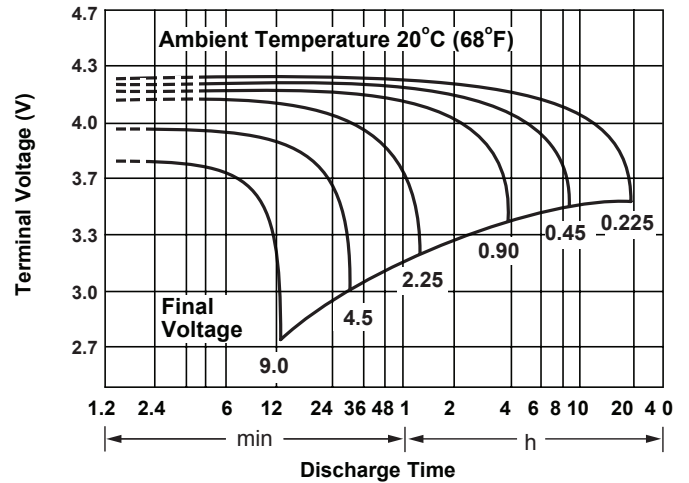
**Shelf Life & Storage**



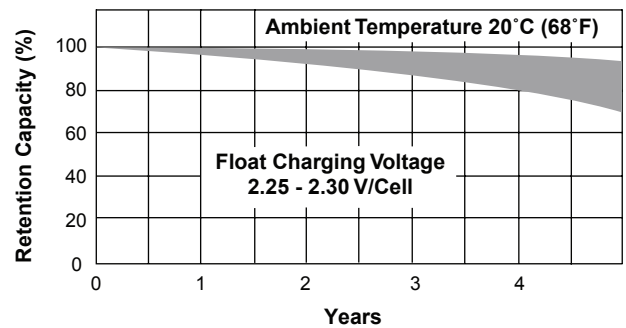
**Discharge Time vs. Discharge Current**



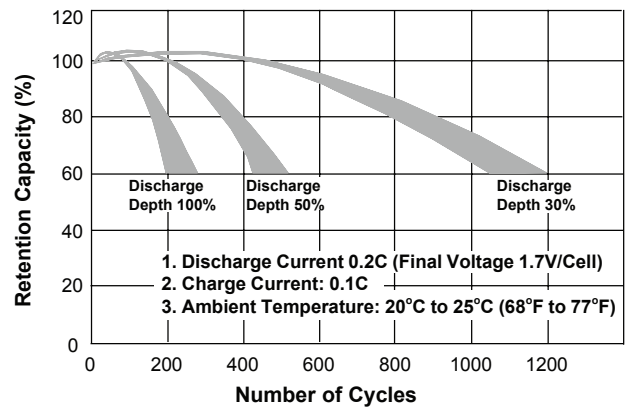
**Discharge Characteristics**



**Life Characteristics in Stand-By Use**



**Life Characteristics in Cyclic Use**



**Charging**

**Cycle Applications:** Limit initial current to 1.35A. 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 45mA. 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.

**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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