

## PS-1251FP 12 Volt 5.4 AH

### Rechargeable Sealed Lead Acid Battery



We've Got The Power.™



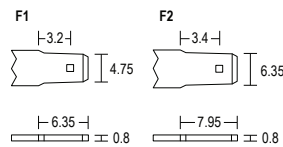
### Features

- 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

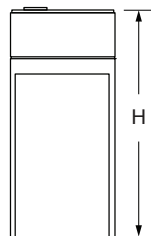
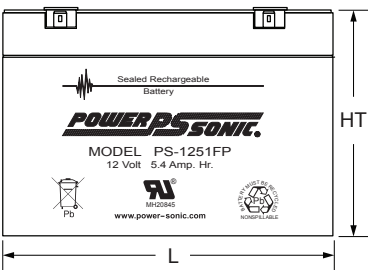
### Terminals

(mm)

- FP - Positive: F2 - Quick disconnect tabs, 0.250" x 0.032", mate with AMP. INC. FASTON "250", Negative: F1 - Quick disconnect tabs, 0.187" x 0.032", mate with AMP. INC. FASTON "187"



### Physical Dimensions: in (mm)



L: 5.50 (140) W: 1.90 (48) H: 4.00 (102) HT: 4.06 (103)

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

#### Nominal Capacity

20-hr. (270mA to 10.50 volts) .....	5.40 AH
10-hr. (500mA to 10.50 volts) .....	5.00 AH
5-hr. (900mA to 10.20 volts) .....	4.50 AH
1-hr. (3.8A to 9.00 volts) .....	3.80 AH
15-min. (10.8A to 9.00 volts) .....	2.70 AH

**Approximate Weight** ..... 4.10 lbs. (1.86 kg)

**Energy Density** (20-hr. rate) ..... 1.55 W-h/in<sup>3</sup> (94.60 W-h/l)

**Specific Energy** (20-hr. rate) ..... 15.80 W-h/lb (34.84 W-h/kg)

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

**Max Discharge Current** (7 Min.) ..... 16.2 amperes

**Max Short-Duration Discharge Current** (10 Sec.)..... 54.0 amperes

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

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

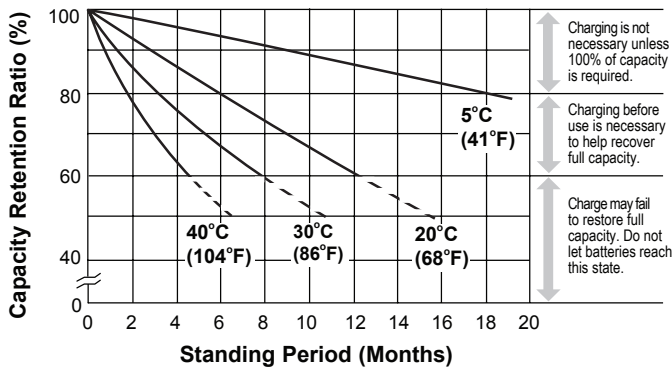
#### Operating Temperature Range

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

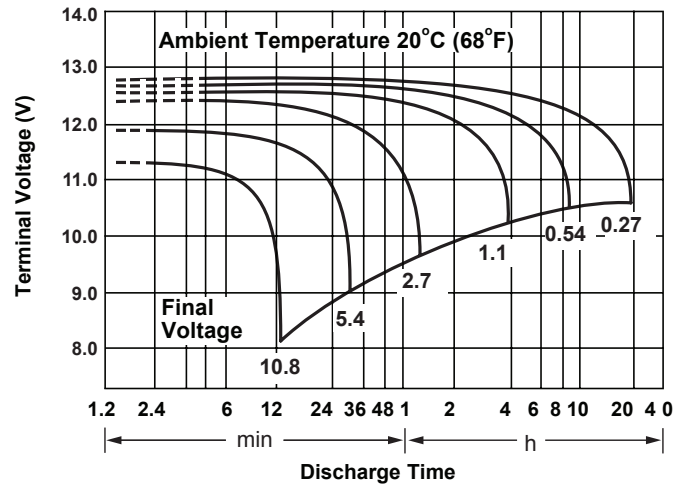
**Case** ..... ABS Plastic

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

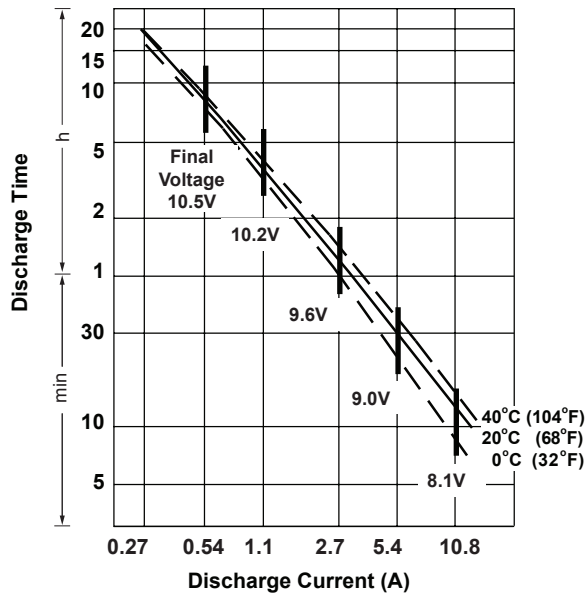
**Shelf Life & Storage**



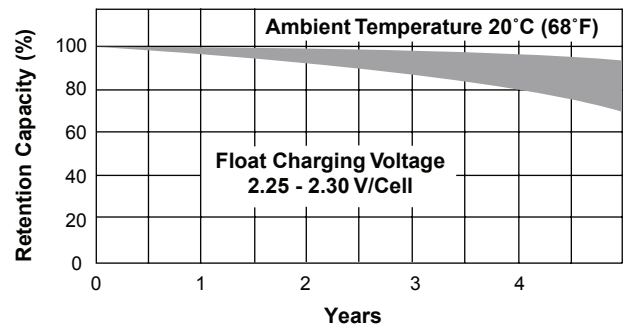
**Discharge Characteristics**



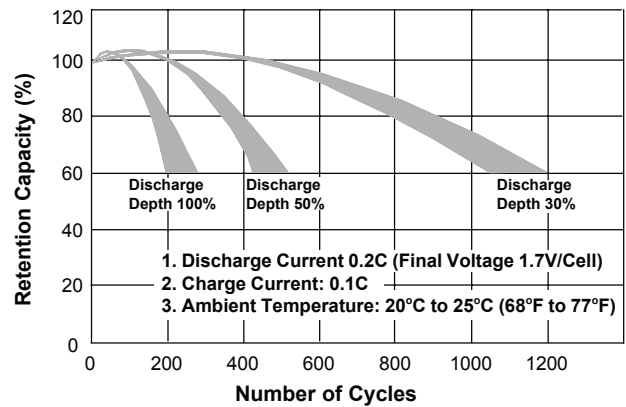
**Discharge Time vs. Discharge Current**



**Life Characteristics in Stand-By Use**



**Life Characteristics in Cyclic Use**



**Charging**

**Cycle Applications:** Limit initial current to 1.62A. 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 54mA. 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**

**DOMESTIC SALES**

Tel: +1-619-661-2020  
 Fax: +1-619-661-3650  
[national-sales@power-sonic.com](mailto:national-sales@power-sonic.com)

**CUSTOMER SERVICE**

Tel: +1-619-661-2030  
 Fax: +1-619-661-3648  
[customer-service@power-sonic.com](mailto:customer-service@power-sonic.com)

**TECHNICAL SUPPORT**

Tel: +1-619-661-2020  
 Fax: +1-619-661-3648  
[support@power-sonic.com](mailto:support@power-sonic.com)

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

**INTERNATIONAL SALES**

Tel: +1-650-364-5001  
 Fax: +1-650-366-3662  
[international-sales@power-sonic.com](mailto:international-sales@power-sonic.com)