

## PSH-12100FR 12 Volt 10.5 AH

Rechargeable Sealed Lead Acid Battery  
HIGH-RATE SERIES



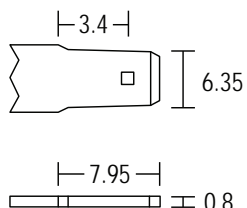
We've Got The Power.™



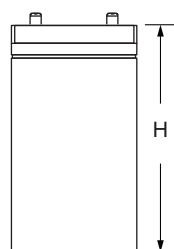
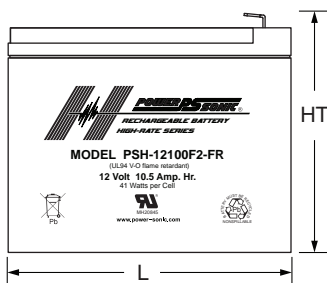
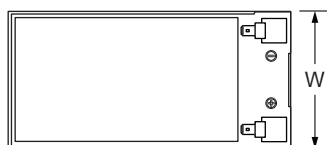
### Terminals

(mm)

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



### Physical Dimensions: in (mm)



L: 5.94 (151) W: 2.56 (65) H: 4.37 (111) HT: 4.61 (117)

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
- Designed specifically for high-rate discharge (UPS) applications
- 41 Watts/cell for 15 min. of constant power
- Rugged plastic case and cover, flame retardant to UL94 V-0
- 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. (525mA to 10.50 volts) .....	10.50 AH
10-hr. (1.00A to 10.50 volts) .....	10.00 AH
5-hr. (1.87A to 10.20 volts) .....	9.35 AH
1-hr. (6.82A to 9.00 volts) .....	6.82 AH
15-min. (17.2A to 9.00 volts).....	4.30 AH

**Approximate Weight** ..... 7.00 lbs. (3.18 kg)

**Energy Density** (20-hr. rate) ..... 1.90 W-h/in<sup>3</sup> (115.71 W-h/l)

**Specific Energy** (20-hr. rate) ..... 18.00 W-h/lb (39.68 W-h/kg)

**Internal Resistance** (approx.) ..... 17 milliohms

**Max Discharge Current** (7 Min.) ..... 31.5 amperes

**Max Short-Duration Discharge Current** (10 Sec.)..... 105.0 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)

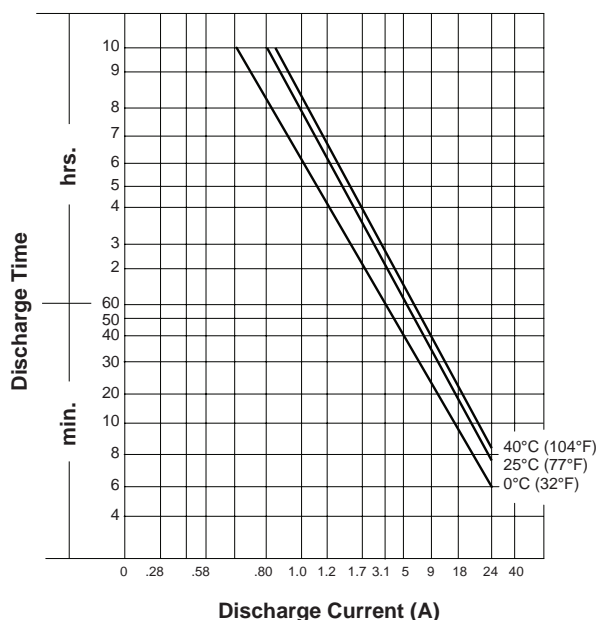
**Case** ..... ABS Plastic (UL94 V-0 flame retardant)

**Power-Sonic Chargers** ..... PSC-122000A, 122000A-C

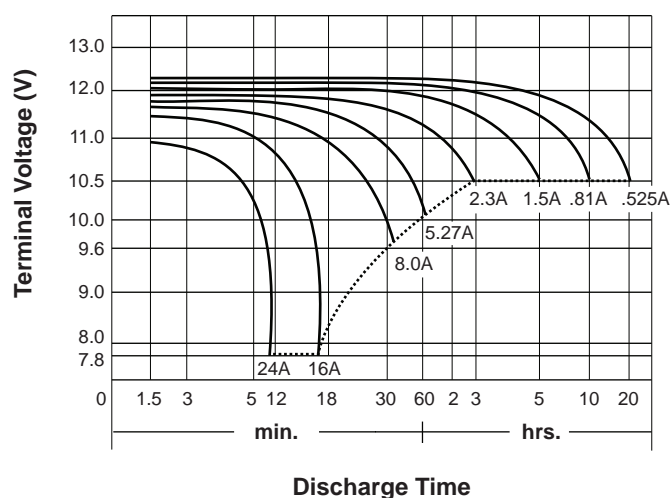
### Constant Power Discharge Ratings

MODEL	FINAL VOLTAGE	WATTS PER CELL @ 25° C						
		5 MIN	10 MIN	15 MIN	20 MIN	30 MIN	45 MIN	60 MIN
<b>PSH-12100FR</b>	1.75	68	47	36	27	20	15.4	13
	1.70	71	52	38	29	22	16	13.2
	1.67	74	57	41	32	24	16.8	13.5

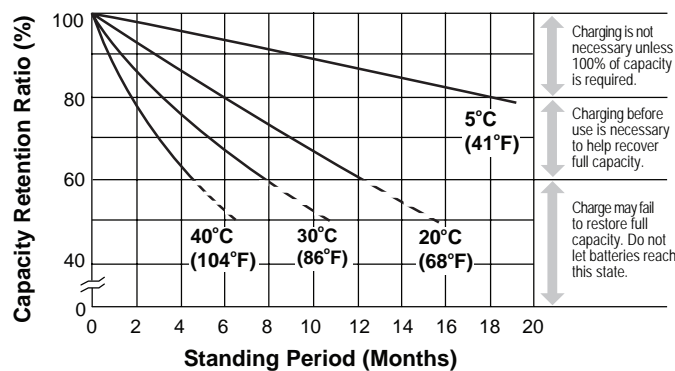
### Discharge Time vs. Discharge Current



### Discharge Characteristics



### Shelf Life & Storage



### Charging

**Cycle Applications:** Limit initial current to 3.15A. 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 105mA. 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

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