

## PSH-12100FR 12 Volt 10.5 AH

Rechargeable Sealed Lead Acid Battery  
HIGH-RATE SERIES



We've Got The Power.™



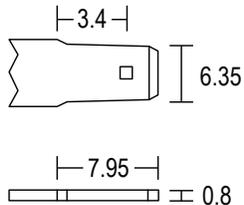
### Features

- 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

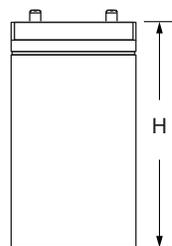
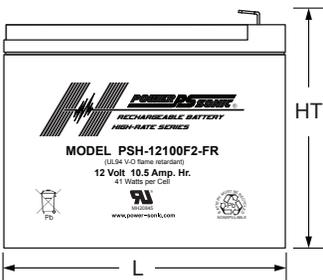
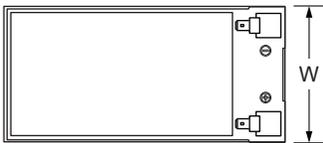
### Terminals

(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.

### 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) |

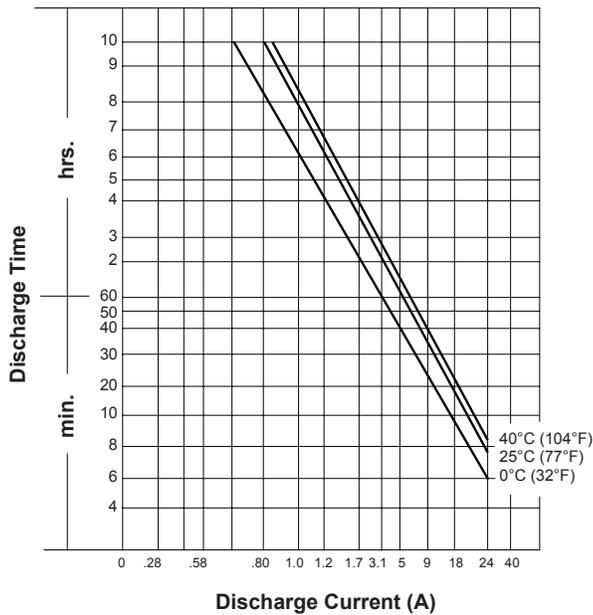
**Case** ..... ABS Plastic (UL94 V-0 flame retardant)

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

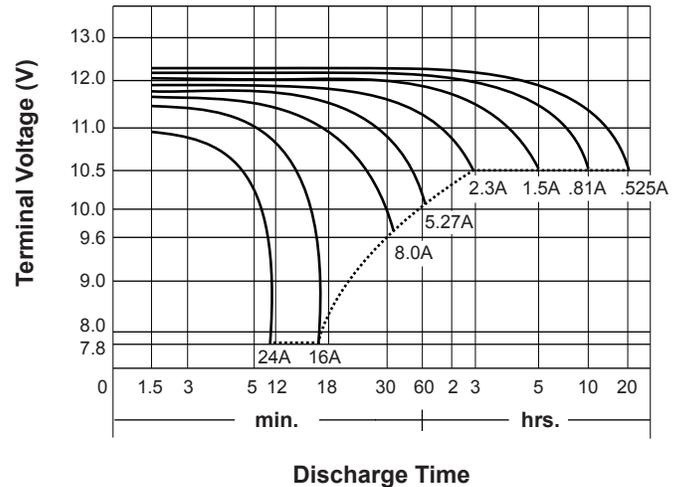
**Constant Power Discharge Ratings**

| 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   |

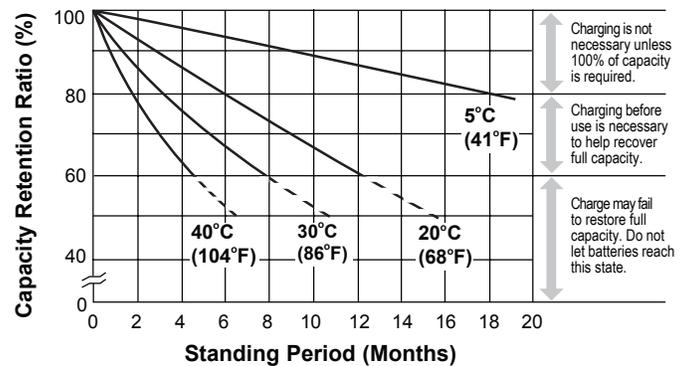
**Discharge Time vs. Discharge Current**



**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**

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

**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)

**INTERNATIONAL SALES**

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

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