

## PSH-1280FR 12 Volt 8.5 AH

Rechargeable Sealed Lead Acid Battery  
HIGH-RATE SERIES

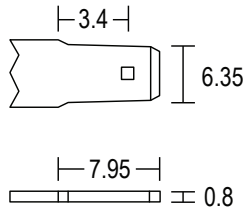


We've Got The Power.™

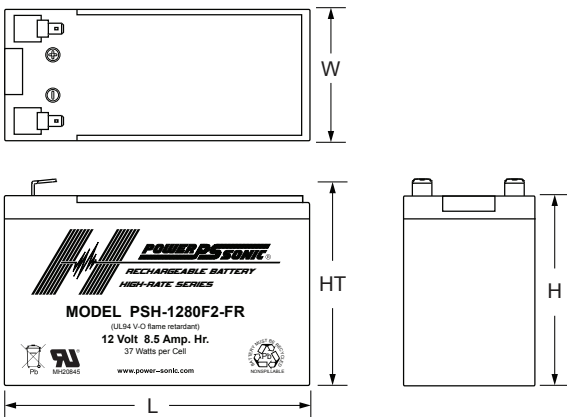


### Terminals (mm)

- 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: 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.

### Features

- Absorbent Glass Mat (AGM) technology for superior performance
- Designed specifically for high-rate discharge (UPS) applications
- 36 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. (425mA to 10.50 volts) .....	8.50 AH
10-hr. (810mA to 10.50 volts) .....	8.10 AH
5-hr. (1.5A to 10.20 volts) .....	7.50 AH
1-hr. (5.27A to 9.00 volts) .....	5.27 AH
15-min. (17.5A to 9.00 volts).....	4.38 AH

**Approximate Weight** ..... 6.00 lbs. (2.72 kg)

**Energy Density** (20-hr. rate) ..... 1.81 W-h/in<sup>3</sup> (110.63 W-h/l)

**Specific Energy** (20-hr. rate) ..... 17.00 W-h/lb (37.48 W-h/kg)

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

**Max Discharge Current** (7 Min.) ..... 25.5 amperes

**Max Short-Duration Discharge Current** (10 Sec.)..... 85.0 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)

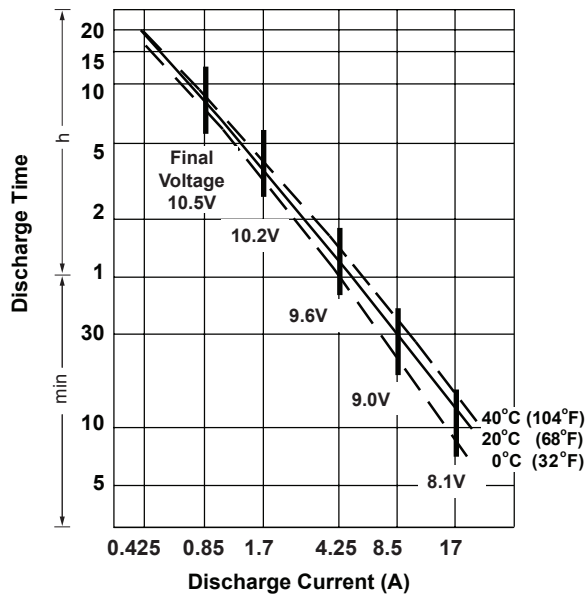
**Case** ..... ABS Plastic (UL94 V-0 flame retardant)

**Power-Sonic Chargers** ..... PSC-12800A, 12800A-C

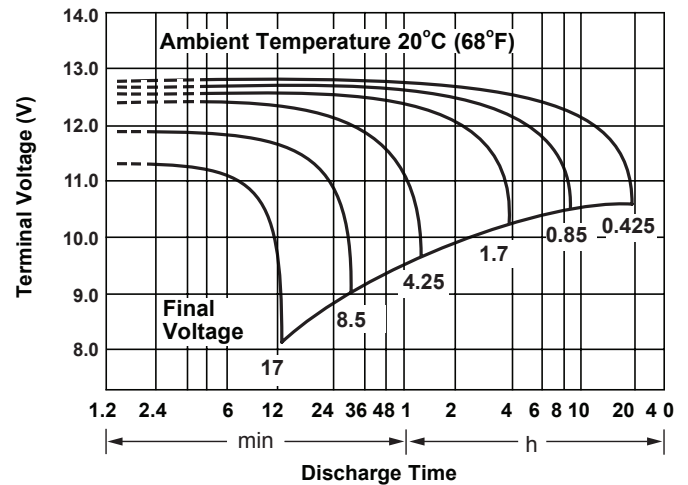
**Constant Power Discharge Ratings**

MODEL	FINAL VOLTAGE	WATTS PER CELL @ 25° C						
		5 MIN	10 MIN	15 MIN	20 MIN	30 MIN	45 MIN	60 MIN
<b>PSH-1280FR</b>	1.75	65	43	35	24	17.5	14.8	12.8
	1.70	66	44	36	24.3	18.7	15	12.9
	1.67	67	45	37	24.7	19.5	15.5	13

**Discharge Time vs. Discharge Current**



**Discharge Characteristics**



**Charging**

**Cycle Applications:** Limit initial current to 2.55A. 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 85mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to “float” voltage.

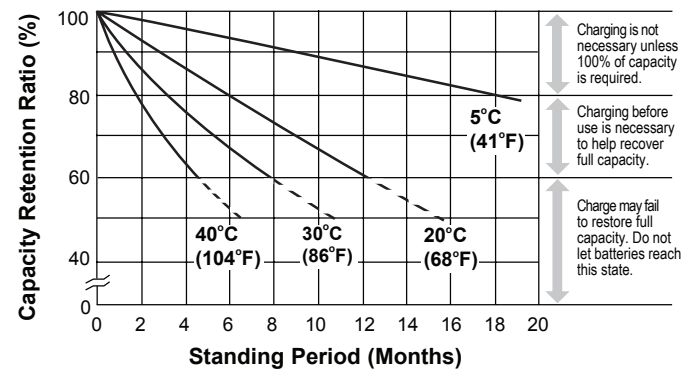
**“Float” or “Stand-By” Service:** Hold battery across constant voltage source of 13.5 to 13.8 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

**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.

**Shelf Life & Storage**



**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

**CUSTOMER SERVICE**

Tel: +1-619-661-2030  
 Fax: +1-619-661-3648  
 customer-service@power-sonic.com

**TECHNICAL SUPPORT**

Tel: +1-619-661-2020  
 Fax: +1-619-661-3648  
 support@power-sonic.com

**INTERNATIONAL SALES**

Tel: +1-650-364-5001  
 Fax: +1-650-366-3662  
 battery@power-sonic.com