

## PSH-1255FR 12 Volt 6.0 AH

Rechargeable Sealed Lead Acid Battery  
HIGH-RATE SERIES



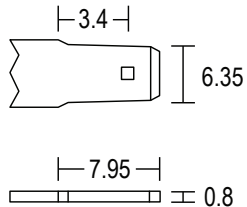
### Features

- Absorbent Glass Mat (AGM) technology for superior performance
- Designed specifically for high-rate discharge (UPS) applications
- 24 Watts/cell for 15 min. of constant power
- Rugged plastic case and cover, flame retardant to UL94 V-O
- 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

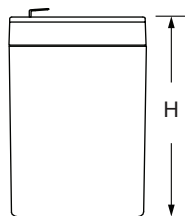
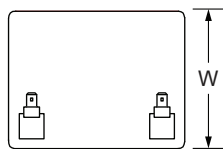
### Terminals

(mm)

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



### Physical Dimensions: in (mm)



L: 3.54 (90) W: 2.76 (70) H: 3.98 (101) HT: 4.21 (107)

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. (300mA to 10.50 volts) .....	6.00 AH
10-hr. (560mA to 10.50 volts) .....	5.60 AH
5-hr. (1.02A to 10.20 volts) .....	5.10 AH
1-hr. (3.72A to 9.00 volts) .....	3.72 AH
15-min. (11.76A to 9.00 volts).....	2.94 AH

**Approximate Weight** ..... 4.00 lbs. (1.81 kg)

**Energy Density** (20-hr. rate) ..... 1.85 W-h/in<sup>3</sup> (112.99 W-h/l)

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

**Internal Resistance** (approx.) ..... 28 milliohms

**Max Discharge Current** (7 Min.) ..... 18.0 amperes

**Max Short-Duration Discharge Current** (10 Sec.)..... 60.0 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)

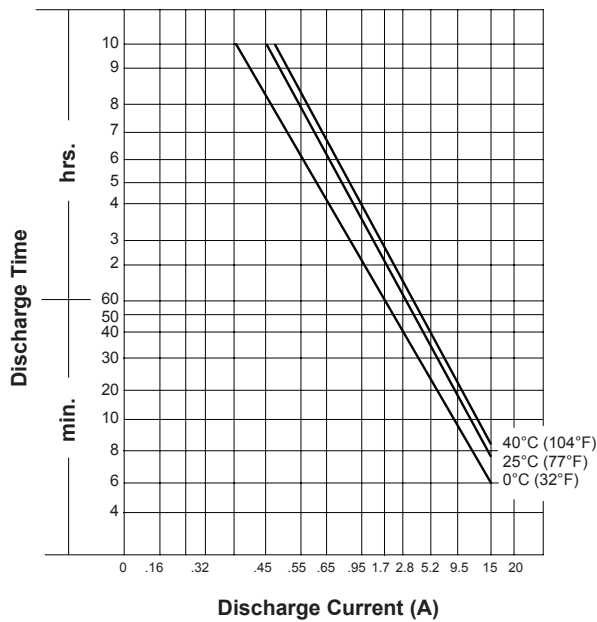
**Case** ..... ABS Plastic (UL94 V-O flame retardant)

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

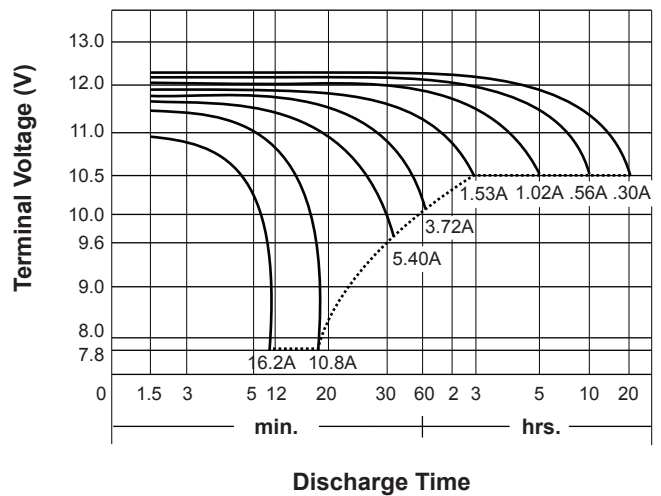
**Constant Power Discharge Ratings**

MODEL	FINAL VOLTAGE	WATTS PER CELL @ 25° C						
		5 MIN	10 MIN	15 MIN	20 MIN	30 MIN	45 MIN	60 MIN
PSH-1255FR	1.75	38	27	22	17	12	9.5	6.4
	1.70	39	28	23	17.5	12.5	9.6	6.5
	1.67	40	29	24	18	13	9.8	6.7

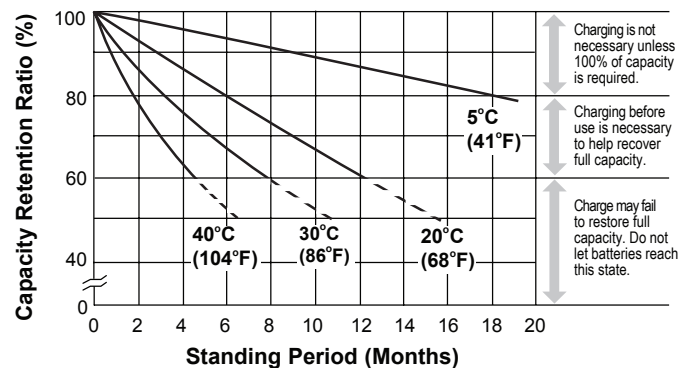
**Discharge Time vs. Discharge Current**



**Discharge Characteristics**



**Shelf Life & Storage**



**Charging**

**Cycle Applications:** Limit initial current to 1.8A. 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 60mA. 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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