

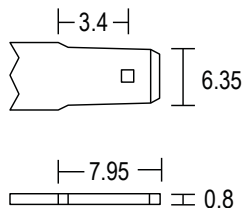
## PSH-1255FR 12 Volt 6.0 AH

Rechargeable Sealed Lead Acid Battery  
HIGH-RATE SERIES

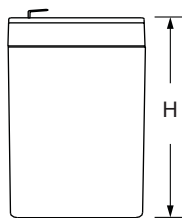
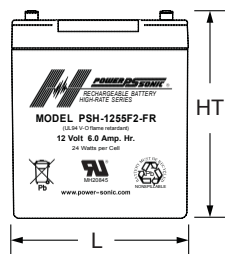
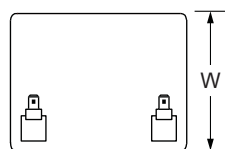


### Terminals (mm)

- 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.

### 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-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. (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) |

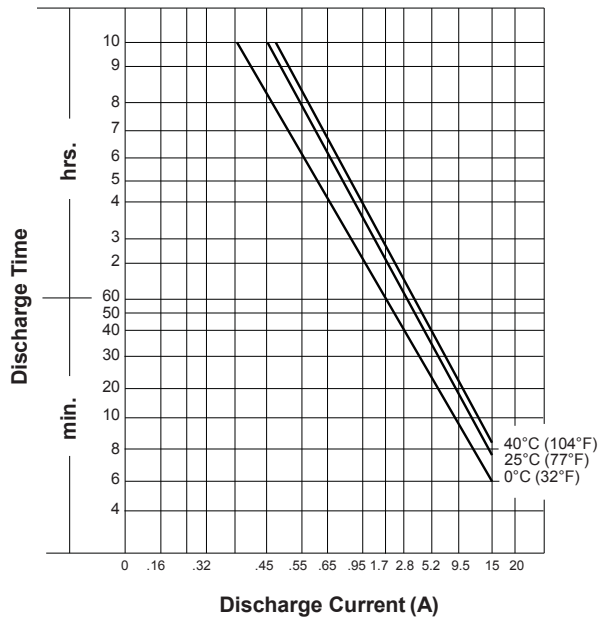
**Case** ..... ABS Plastic (UL94 V-0 flame retardant)

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

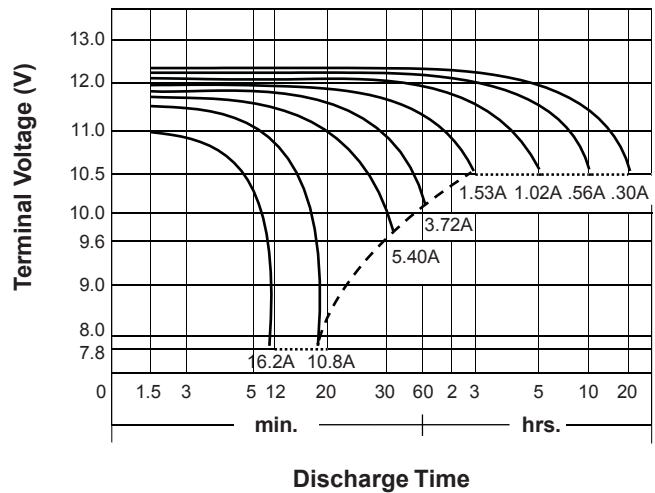
**Constant Power Discharge Ratings**

| MODEL             | FINAL VOLTAGE | WATTS PER CELL @ 25° C |        |        |        |        |        |        |
|-------------------|---------------|------------------------|--------|--------|--------|--------|--------|--------|
|                   |               | 5 MIN                  | 10 MIN | 15 MIN | 20 MIN | 30 MIN | 45 MIN | 60 MIN |
| <b>PSH-1255FR</b> | 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    |

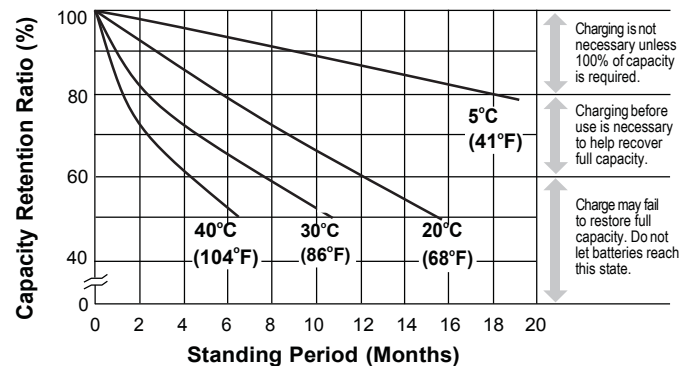
**Discharge Time vs. Discharge Current**



**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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