

## PSH-655FR 6 Volt 5.5 AH

Rechargeable Sealed Lead Acid Battery  
HIGH-RATE SERIES



We've Got The Power.™



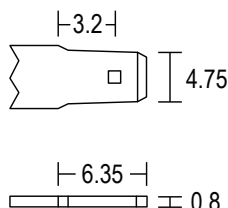
### Features

- Absorbent Glass Mat (AGM) technology for superior performance
- Designed specifically for high-rate discharge (UPS) applications
- 95.9 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

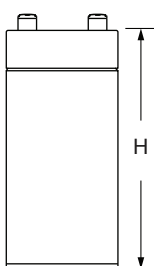
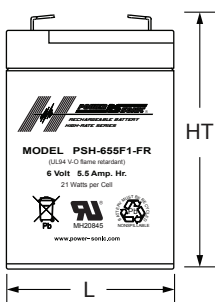
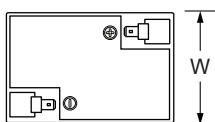
### Terminals

(mm)

- F1 - Quick disconnect tabs, 0.187" x 0.032" - Mate with AMP. INC. FASTON "187" series



### Physical Dimensions: in (mm)



L: 2.76 (70) W: 1.85 (47) H: 3.94 (100) HT: 4.17 (106)

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** .....6 volts (3 cells)

#### Nominal Capacity

20-hr. (275mA to 5.25 volts) .....	5.50 AH
10-hr. (540mA to 5.25 volts) .....	5.40 AH
5-hr. (950mA to 5.10 volts) .....	4.75 AH
1-hr. (3.7A to 4.50 volts) .....	3.70 AH
15-min. (11.2A to 4.50 volts).....	2.80 AH

**Approximate Weight** ..... 2.10 lbs. (0.95 kg)

**Energy Density** (20-hr. rate) ..... 1.64 W-h/in<sup>3</sup> (100.10 W-h/l)

**Specific Energy** (20-hr. rate) ..... 15.71 W-h/lb (34.64 W-h/kg)

**Internal Resistance** (approx.) ..... 10 milliohms

**Max Discharge Current** (7 Min.) ..... 16.5 amperes

**Max Short-Duration Discharge Current** (10 Sec.)..... 55.0 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)

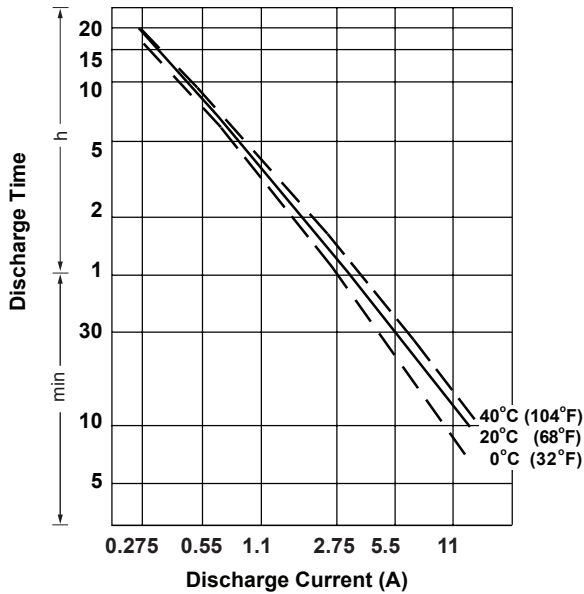
**Case** ..... ABS Plastic (UL94 V-0 flame retardant)

**Power-Sonic Chargers** .....PSC-61000A, 6500A-C, 61000A-C

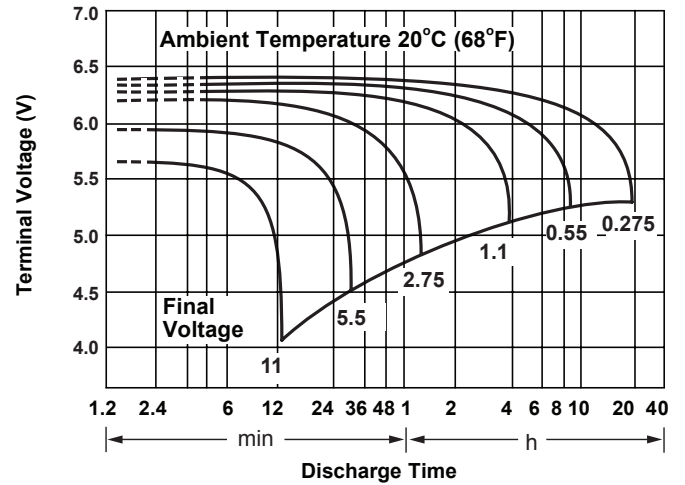
**Constant Power Discharge Ratings**

MODEL	FINAL VOLTAGE	WATTS PER CELL @ 25° C						
		5 MIN	10 MIN	15 MIN	20 MIN	30 MIN	45 MIN	60 MIN
PSH-655FR	1.75	168.4	121.7	95.9	82	60.9	45	37.1
	1.70	180.3	129.6	101	85	63.1	47	38.2
	1.67	17.7	135	103.8	89	64.9	47.5	38.8

**Discharge Time vs. Discharge Current**



**Discharge Characteristics**



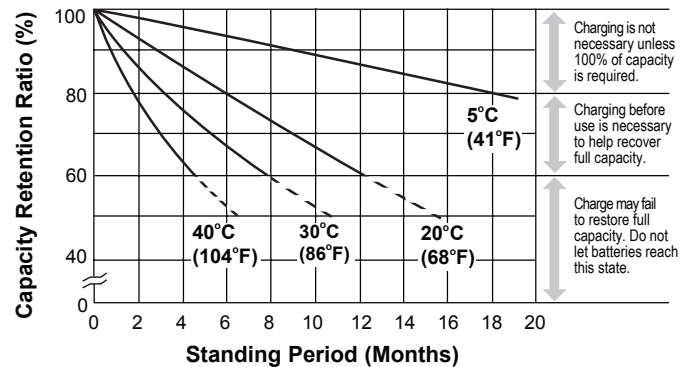
**Charging**

**Cycle Applications:** Limit initial current to 1.65A. Charge until battery voltage (under charge) reaches 7.20 to 7.35 volts at 68°F (20°C). Hold at 7.20 to 7.35 volts until current drops to under 55mA. 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 6.75 to 6.90 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.

**Shelf Life & Storage**



**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)

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