

## PS-650LS & LF 6 Volt 5.0 AH

Rechargeable Sealed Lead Acid Battery



We've Got The Power.™

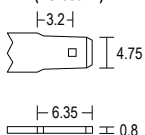


### Terminals

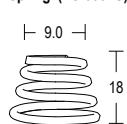
(mm)

- Fully collapsible spring type terminals
- F1 - Quick disconnect tabs, 0.187" x 0.032" - Mate with AMP. INC. FASTON "187" series

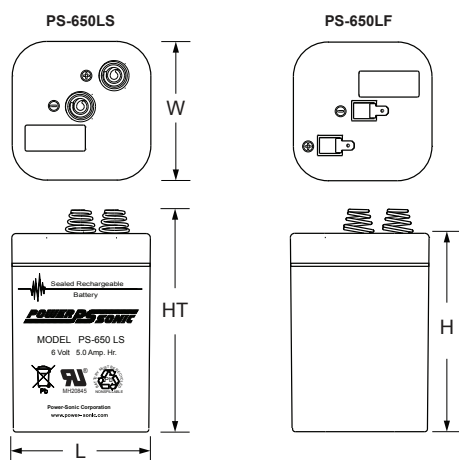
F1 (PS-650LF)



Spring (PS-650LS)



### Physical Dimensions: in (mm)



L: 2.64 (67) W: 2.64 (67) H: 3.94 (100) HT: 4.64 (118)

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
- Valve regulated, spill proof construction allows safe operation in any position
- Power/volume ratio yielding unrivaled energy density
- Rugged impact resistant ABS case and cover (UL94-HB)
- 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
- Available with spring or FASTON terminals

### Performance Specifications

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

#### Nominal Capacity

|                                    |         |
|------------------------------------|---------|
| 20-hr. (250mA to 5.25 volts) ..... | 5.00 AH |
| 10-hr. (430mA to 5.25 volts) ..... | 4.30 AH |
| 5-hr. (800mA to 5.10 volts) .....  | 4.00 AH |
| 1-hr. (3A to 4.50 volts) .....     | 3.00 AH |
| 15-min. (9.0A to 4.50 volts) ..... | 2.25 AH |

**Approximate Weight** ..... 1.80 lbs. (0.82 kg)

**Energy Density** (20-hr. rate) ..... 1.09 W-h/in<sup>3</sup> (66.67 W-h/l)

**Specific Energy** (20-hr. rate) ..... 16.67 W-h/lb (36.74 W-h/kg)

**Internal Resistance** (approx.) ..... n/a milliohms

**Max Discharge Current** (7 Min.) ..... 15.0 amperes

**Max Short-Duration Discharge Current** (10 Sec.)..... n/a amperes

**Shelf Life** (% of nominal capacity at 68°F (20°C))

|                |     |
|----------------|-----|
| 1 Month .....  | 97% |
| 3 Months.....  | 91% |
| 6 Months ..... | 83% |

#### Operating Temperature Range

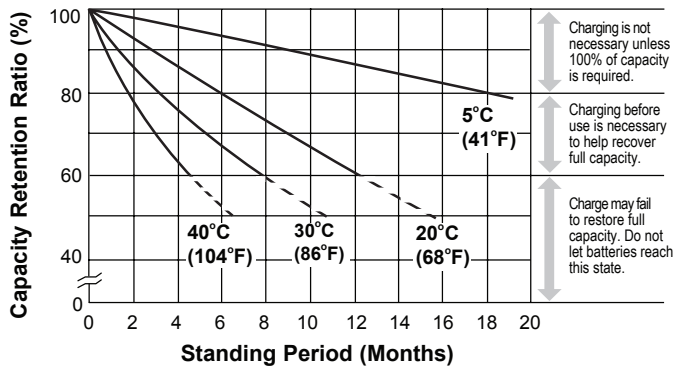
Charge.. ..... -4°F (-20°C) to 122°F (50°C)

Discharge..... -40°F (-40°C) to 140°F (60°C)

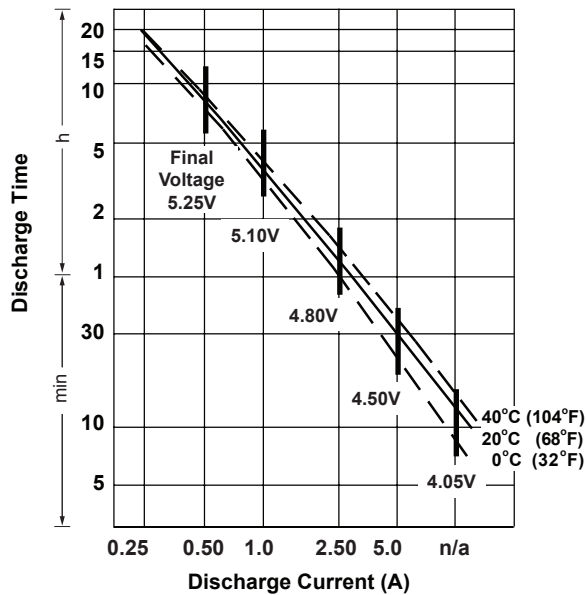
**Case** ..... ABS Plastic

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

### Shelf Life & Storage



### Discharge Time vs. Discharge Current



### Charging

**Cycle Applications:** Limit initial current to 1.5A. 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 50mA. 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.

### 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.

### Contact Information

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#### TECHNICAL SUPPORT

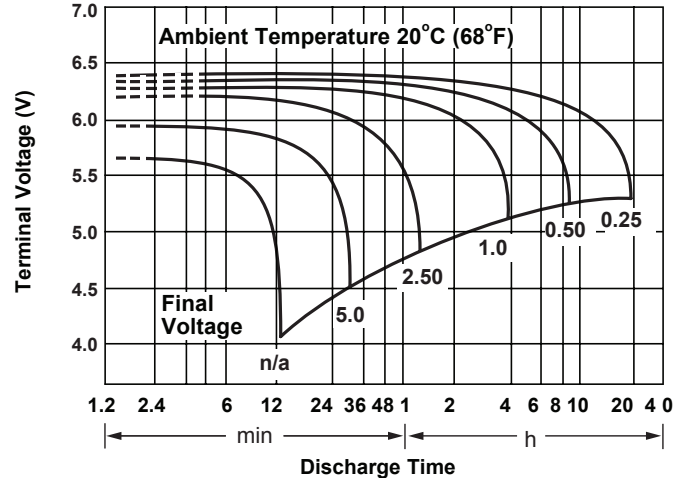
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#### INTERNATIONAL SALES

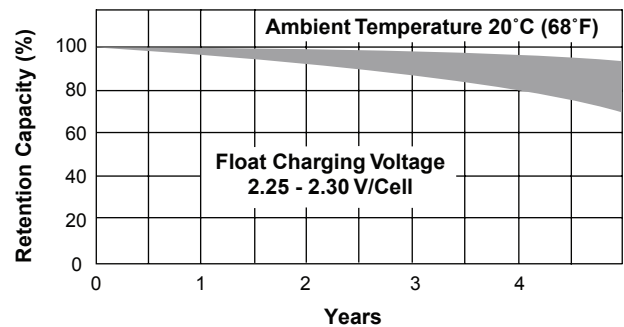
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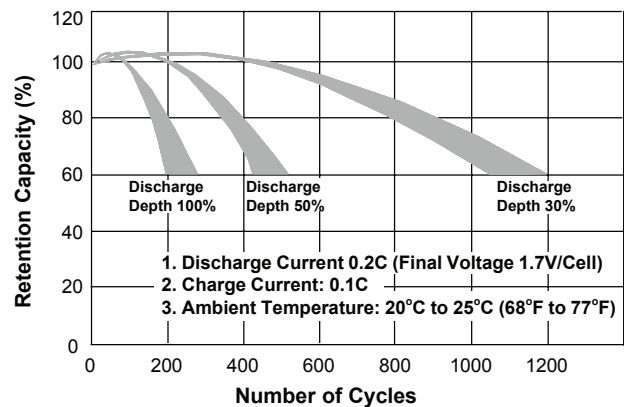
### Discharge Characteristics



### Life Characteristics in Stand-By Use



### Life Characteristics in Cyclic Use



### 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..

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