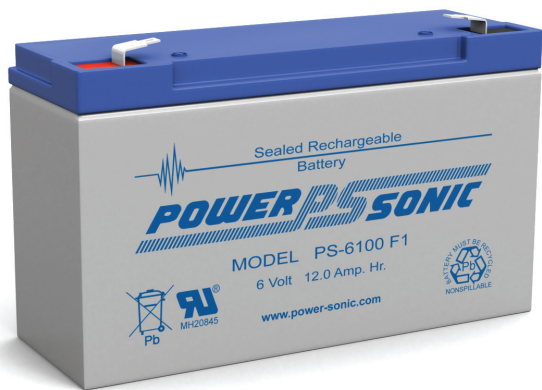


# PS-6100

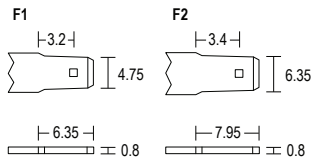


## Features

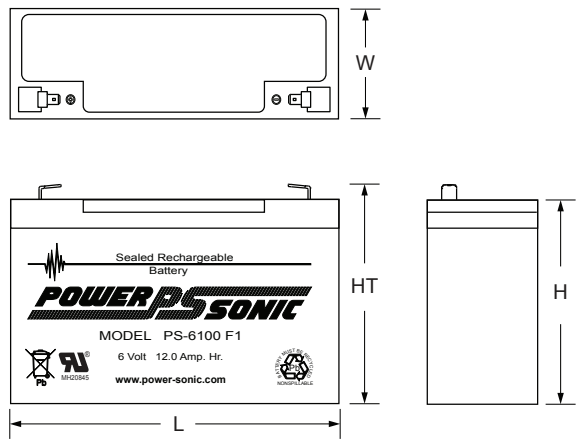
- Absorbent Glass Mat (AGM) technology for superior performance
- Valve regulated, spill proof construction allows safe operation in any position
- Power/volume ratio yielding unrivaled energy density
- Rugged impact resistant ABS case and cover (UL94-HB)
- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified
- U.L. recognized under file number MH 20845

## Terminals (mm)

- F1 - Quick disconnect tabs, 0.187" x 0.032"- Mate with AMP. INC. FASTON "187" series
- F2 - Quick disconnect tabs, 0.250" x 0.032"- Mate with AMP. INC FASTON "250" series



## Physical Dimensions: in (mm)



L: 5.95 (151) W: 2.00 (51) 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.

## Performance Specifications

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

| Nominal Capacity                    |          |
|-------------------------------------|----------|
| 20-hr. (600mA to 5.25 volts) .....  | 12.00 AH |
| 10-hr. (1.15A to 5.25 volts) .....  | 11.50 AH |
| 5-hr. (2.1A to 5.10 volts) .....    | 10.50 AH |
| 1-hr. (7.3A to 4.50 volts) .....    | 7.30 AH  |
| 15-min. (22.3A to 4.50 volts) ..... | 5.58 AH  |

**Approximate Weight** ..... 4.30 lbs. (1.95 kg)

**Energy Density** (20-hr. rate) ..... 1.64 W-h/in<sup>3</sup> (99.79 W-h/l)

**Specific Energy** (20-hr. rate) ..... 16.74 W-h/lb (36.91 W-h/kg)

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

**Max Discharge Current** (7 Min.) ..... 36.0 amperes

**Max Short-Duration Discharge Current** (10 Sec.)..... 120.0 amperes

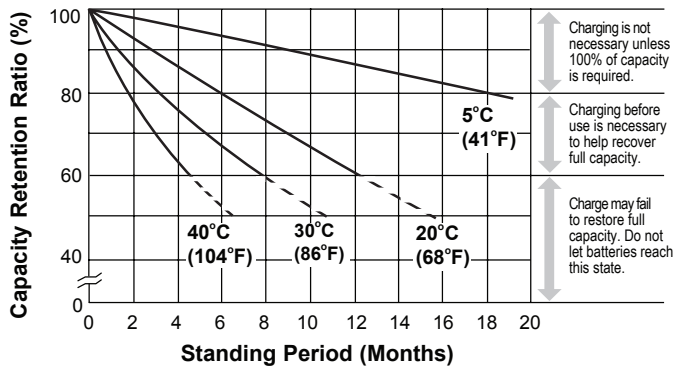
| Shelf Life (% of nominal capacity at 68°F (20°C)) |     |
|---------------------------------------------------|-----|
| 1 Month .....                                     | 97% |
| 3 Months.....                                     | 91% |
| 6 Months .....                                    | 83% |

| Operating Temperature Range |                               |
|-----------------------------|-------------------------------|
| Charge.. .....              | -4°F (-20°C) to 122°F (50°C)  |
| Discharge.....              | -40°F (-40°C) to 140°F (60°C) |

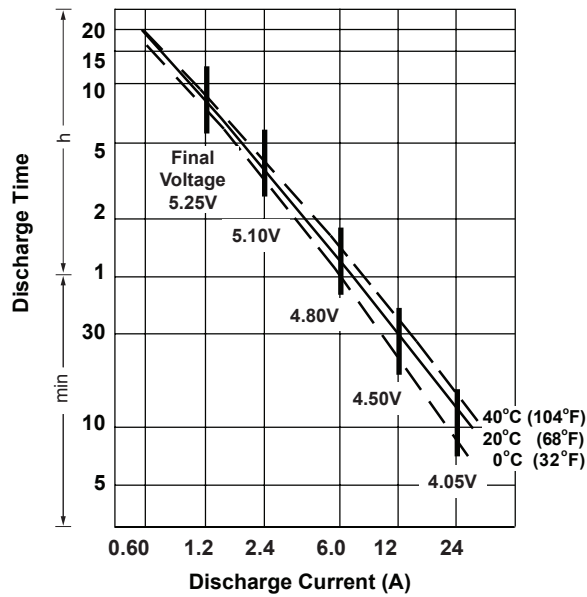
**Case** ..... ABS Plastic

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

## Shelf Life & Storage



## Discharge Time vs. Discharge Current



## Charging

**Cycle Applications:** Limit initial current to 3.6A. 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 120mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to “float” voltage.

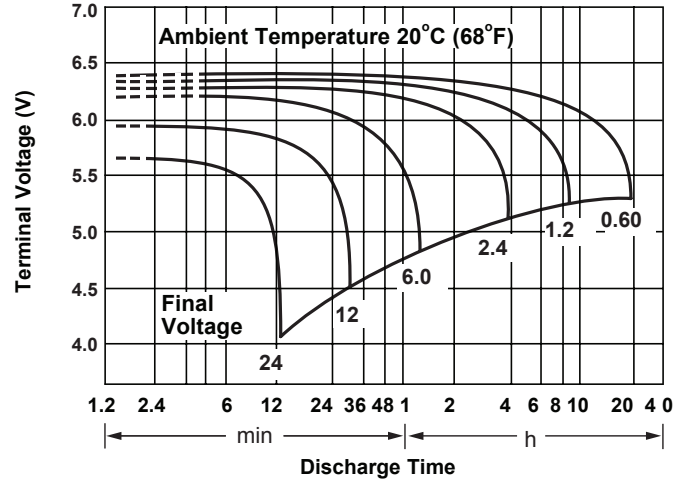
**“Float” or “Stand-By” Service:** Hold battery across constant voltage source of 6.75 to 6.90 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

**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.

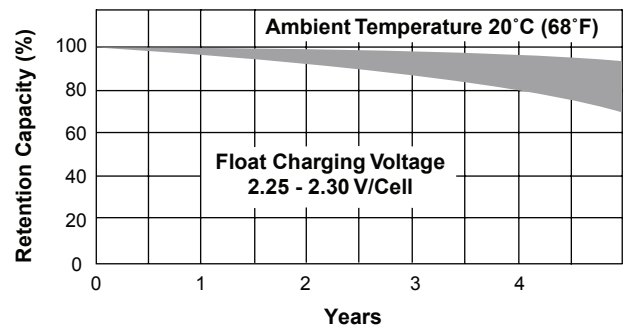
## Chargers

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.

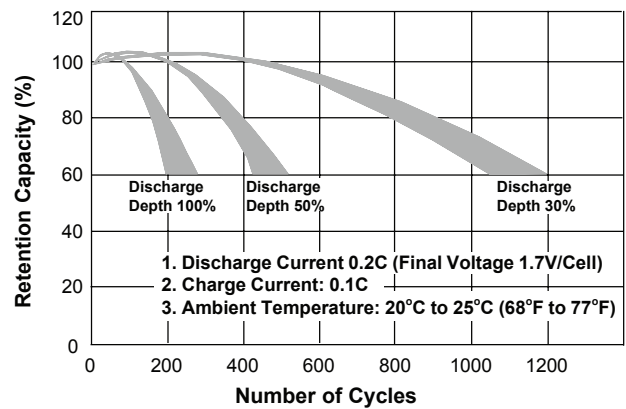
## Discharge Characteristics



## 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..