

# PS-1270

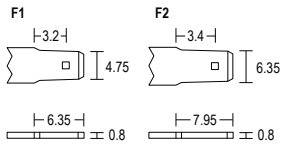


## Features

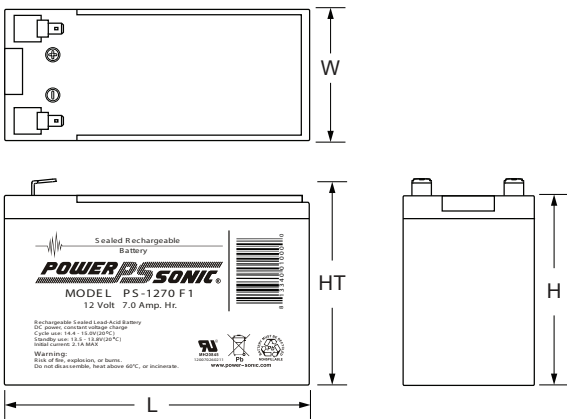
- Absorbent Glass Mat (AGM) technology for superior performance
- Valve regulated, spill proof construction allows safe operation in any position
- Power/volume ratio yielding unrivaled energy density
- Rugged impact resistant ABS case and cover (UL94-HB)
- Approved for transport by air. D.O.T., I.A.T.A., 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: 2.56 (65) 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** ..... 12 volts (6 cells)

### Nominal Capacity

20-hr. (350mA to 10.50 volts) .....	7.00 AH
10-hr. (650mA to 10.50 volts) .....	6.50 AH
5-hr. (1.2A to 10.20 volts) .....	6.00 AH
1-hr. (4.5A to 9.00 volts) .....	4.50 AH
15-min. (14A to 9.00 volts) .....	3.50 AH

**Approximate Weight** ..... 4.80 lbs. (2.18 kg)

**Energy Density (20-hr. rate)** ..... 1.49 W-h/in<sup>3</sup> (90.95 W-h/l)

**Specific Energy (20-hr. rate)** ..... 17.50 W-h/lb (38.58 W-h/kg)

**Internal Resistance (approx.)** ..... 23 milliohms

**Max Discharge Current (7 Min.)** ..... 21.0 amperes

**Max Short-Duration Discharge Current (10 Sec.)** ..... 70.0 amperes

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

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

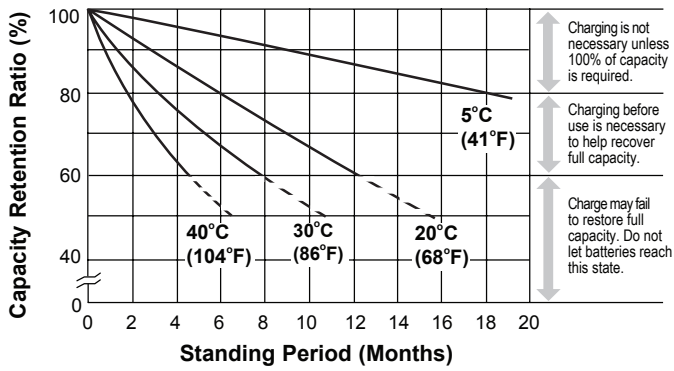
### Operating Temperature Range

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

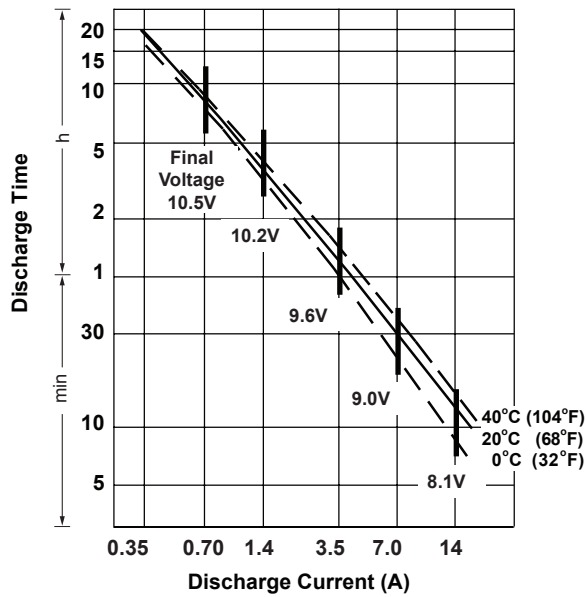
**Case** ..... ABS Plastic

**Power-Sonic Chargers**.....PSC-12800A, 12800A-C

## Shelf Life & Storage



## Discharge Time vs. Discharge Current



## Charging

**Cycle Applications:** Limit initial current to 2.1A. 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 70mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

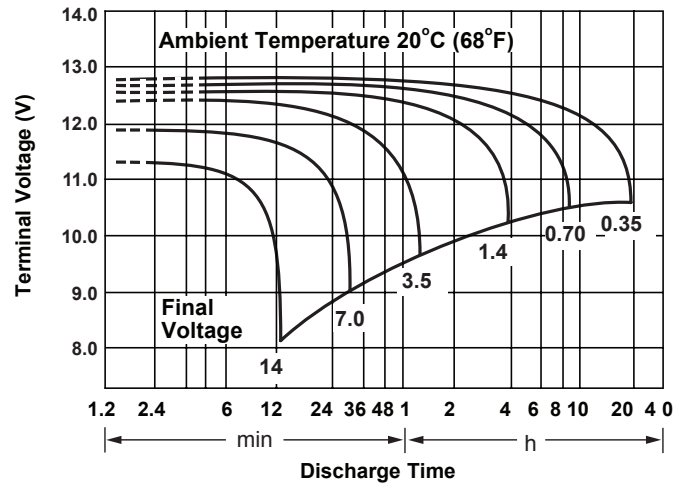
**"Float" or "Stand-By" Service:** Hold battery across constant voltage source of 13.5 to 13.8 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

**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.

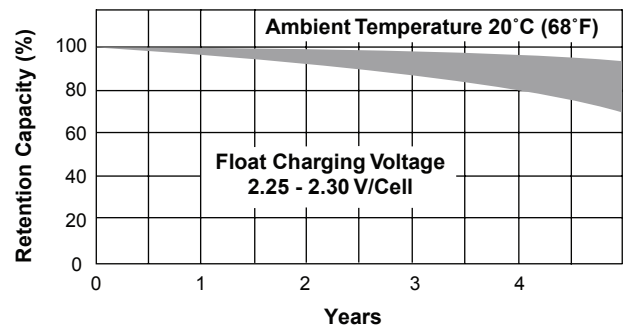
## Chargers

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.

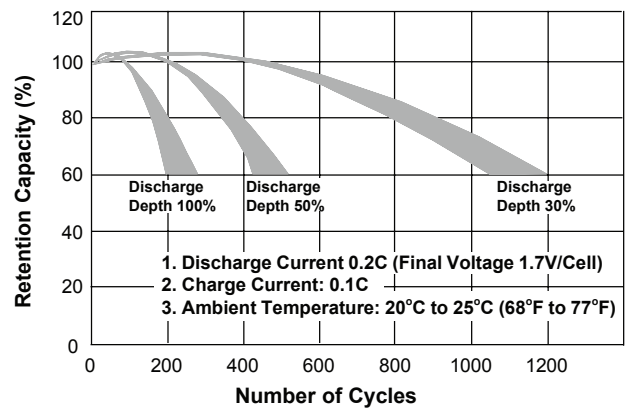
## Discharge Characteristics



## 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..