

## PS-1280 12 Volt 8.0 AH

### Rechargeable Sealed Lead Acid Battery



We've Got The Power.™



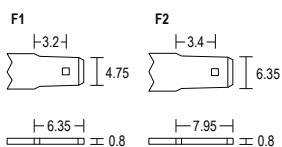
### Features

- 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

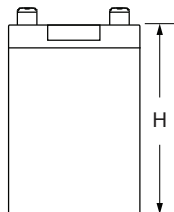
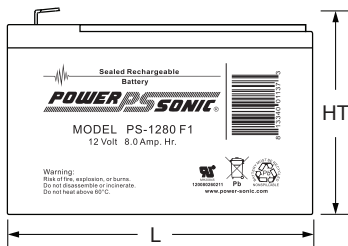
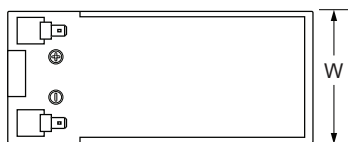
### Terminals

(mm)

- F1 - Quick disconnect tabs, 0.187" x 0.032" - Mate with AMP. INC. FASTON "187" series — OR —
- 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: 3.72 (94.5) HT: 3.94 (100)

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. (400mA to 10.50 volts) .....	8.00 AH
10-hr. (720mA to 10.50 volts) .....	7.20 AH
5-hr. (1.33A to 10.20 volts) .....	6.65 AH
1-hr. (4.90A to 9.00 volts) .....	4.90 AH
15-min. (15.1A to 9.00 volts) .....	3.78 AH

**Approximate Weight** ..... 5.51 lbs. (2.5 kg)

**Energy Density** (20-hr. rate) ..... 1.69 W-h/in<sup>3</sup> (103.39 W-h/l)

**Specific Energy** (20-hr. rate) ..... 17.42 W-h/lb (38.41 W-h/kg)

**Internal Resistance** (approx.) ..... 18 milliohms

**Max Discharge Current** (7 Min.) ..... 24.0 amperes

**Max Short-Duration Discharge Current** (10 Sec.)..... 80.0 amperes

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

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

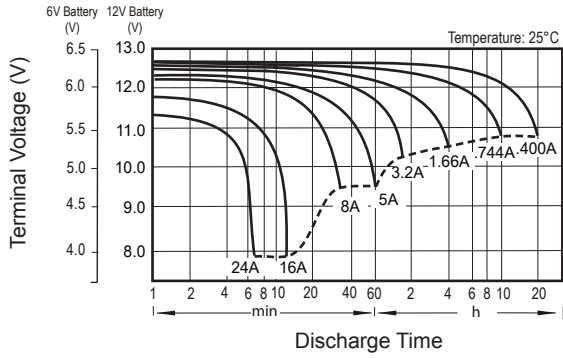
#### Operating Temperature Range

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

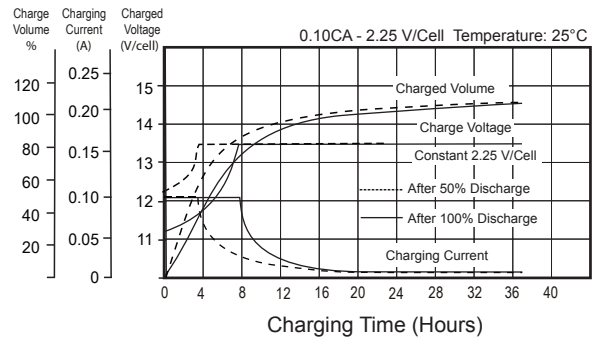
**Case** ..... ABS Plastic

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

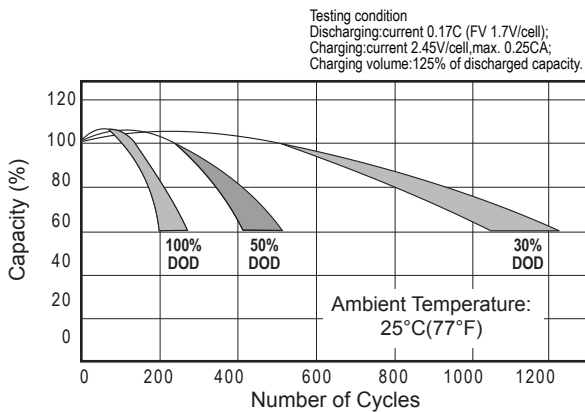
**Discharge Characteristics**



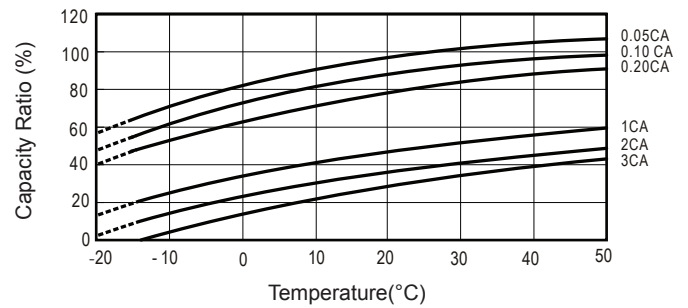
**Charging Characteristics (Cycle Use)**



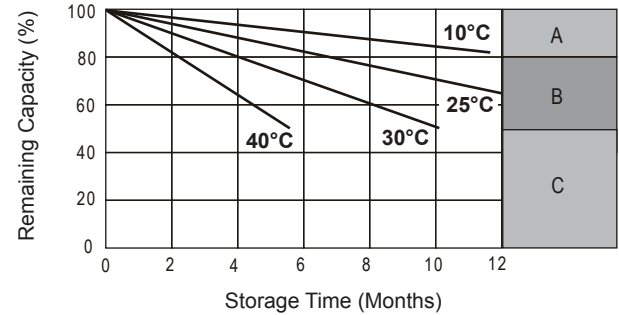
**Cycle Life in Relation to Depth of Discharge**



**Temperature Effects in Relation to Battery Capacity**



**Self Discharge Characteristics**



- A** No supplementary charge required  
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:  
1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.  
2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.  
3. Charged for 8-10 hours at limited current 0.05CA.
- C** Supplementary charge may often fail to recover the capacity.  
The battery should never be left standing till this is reached

**Charging**

**Cycle Applications:** Limit initial current to 2.4A. 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 80mA. 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..

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