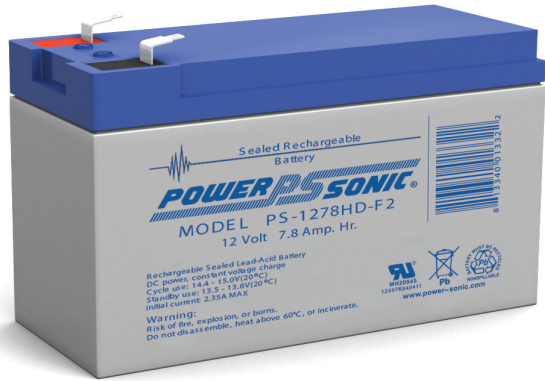


## PS-1278HD-F2 12 Volt 7.8 AH

Rechargeable Sealed Lead Acid Battery

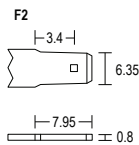


### Features

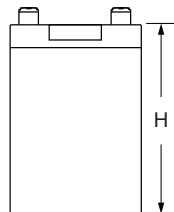
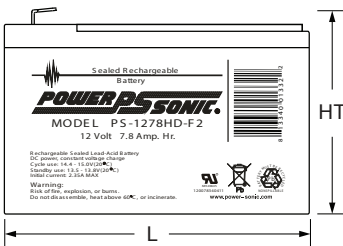
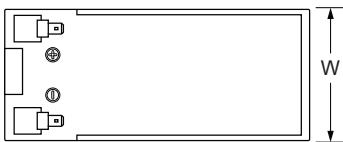
- Heavy duty construction
- High vibration tolerance
- Absorbent Glass Mat (AGM) technology for superior performance
- Valve regulated, spill proof construction allows safe operation in any position
- Power/volume ratio yielding unrivaled energy density
- Rugged impact resistant ABS case and cover (UL94-HB)
- 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)

- 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: 3.68 (93.5) HT: 3.90 (99)

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. (390mA to 10.80 volts) .....	7.80 AH
10-hr. (728mA to 10.80 volts) .....	7.28 AH
5-hr. (1.3A to 10.50 volts) .....	6.50 AH
1-hr. (4.7A to 9.60 volts) .....	4.70 AH
15-min. (15.4A to 9.60 volts) .....	3.85 AH

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

**Energy Density (20-hr. rate)** ..... 1.68 W-h/in<sup>3</sup> (102.52 W-h/l)

**Specific Energy (20-hr. rate)** ..... 16.90 W-h/lb (37.44 W-h/kg)

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

**Max Discharge Current (5 Min.)** ..... 29.9 amperes

**Max Short-Duration Discharge Current (5 Sec.)**..... 117.0 amperes

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

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

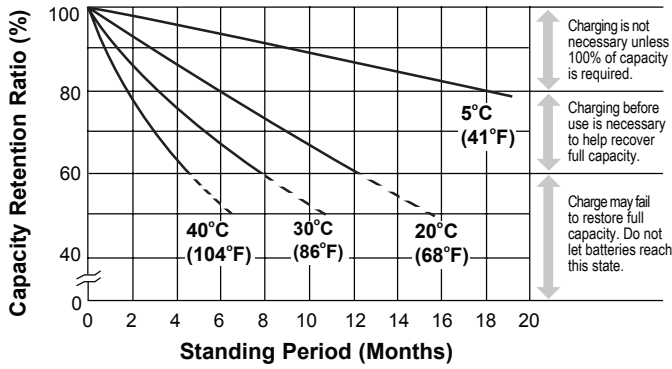
#### Operating Temperature Range

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

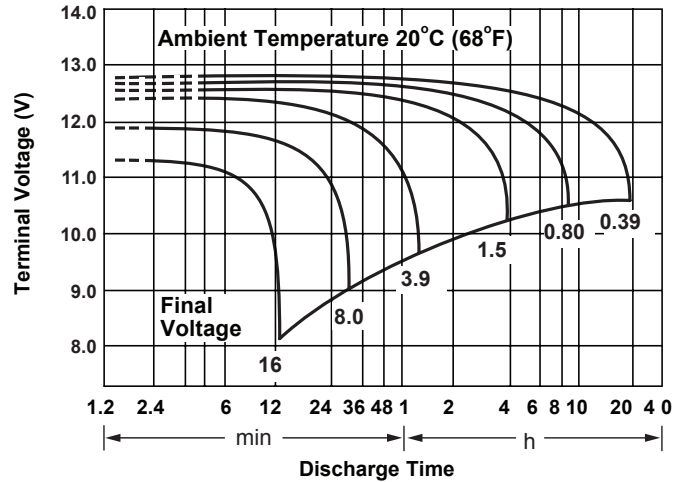
**Case** ..... ABS Plastic

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

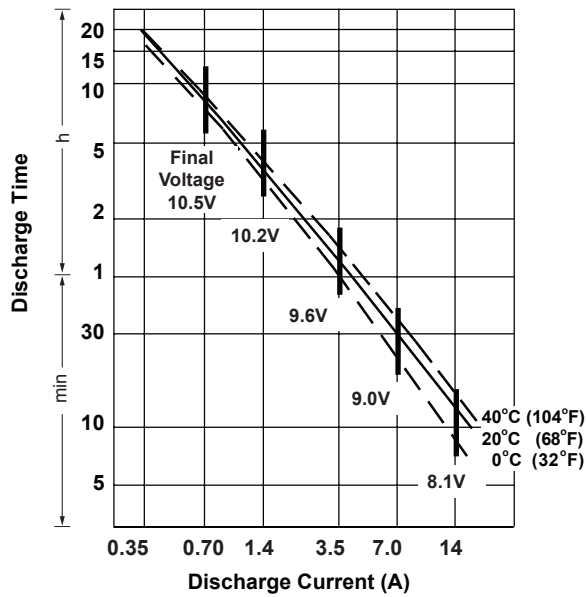
### Shelf Life & Storage



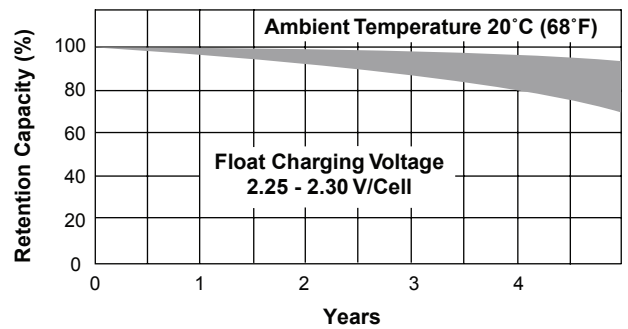
### Discharge Characteristics



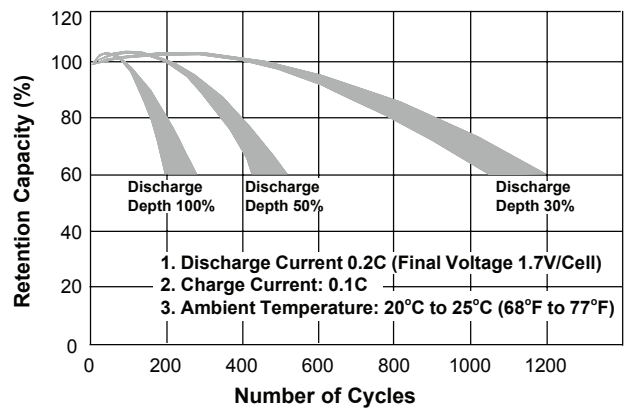
### Discharge Time vs. Discharge Current



### Life Characteristics in Stand-By Use



### Life Characteristics in Cyclic Use



## 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 78mA. 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.