



## PS-1228 12 Volt 2.8 AH

### Rechargeable Sealed Lead Acid Battery



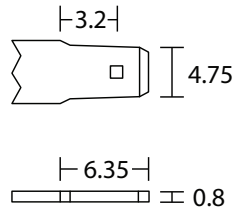
#### Features

- 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

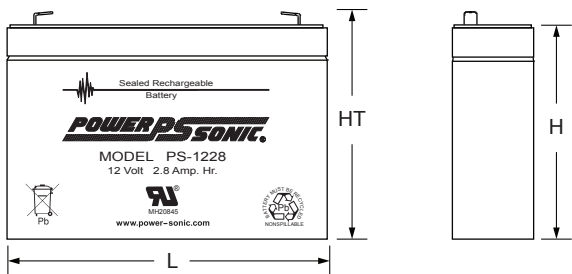
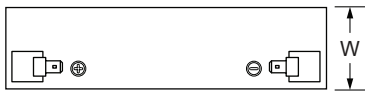
#### Terminals

(mm)

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



#### Physical Dimensions: in (mm)



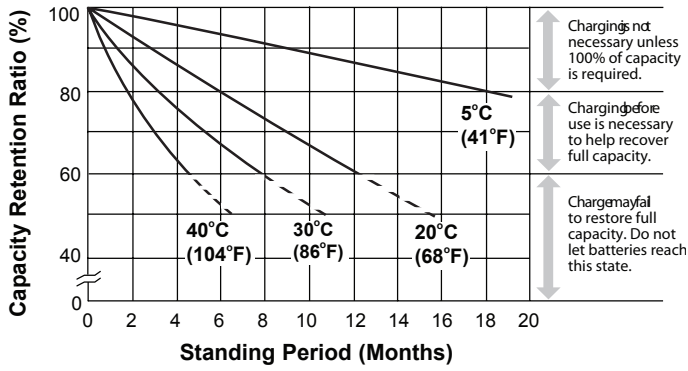
**L: 5.24 (133) W: 1.30 (33) H: 3.82 (97) HT: 4.09 (104)**

Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

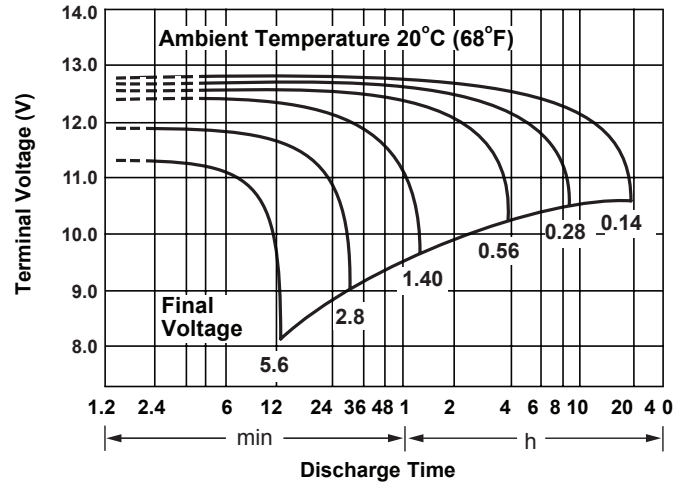
#### Performance Specifications

Nominal Voltage .....	12 volts (6 cells)
Nominal Capacity	
20-hr. (140mA to 10.50 volts) .....	2.80 AH
10-hr. (250mA to 10.50 volts) .....	2.50 AH
5-hr. (480mA to 10.20 volts) .....	2.40 AH
1-hr. (1.7A to 9.00 volts) .....	1.70 AH
15-min. (5.3A to 9.00 volts) .....	1.33 AH
Approximate Weight .....	2.60 lbs. (1.18 kg)
Energy Density (20-hr. rate) .....	1.29 W-h/in <sup>3</sup> (78.80 W-h/l)
Specific Energy (20-hr. rate) .....	12.92 W-h/lb (28.49 W-h/kg)
Internal Resistance (approx.) .....	60 milliohms
Max Discharge Current (7 Min.) .....	8.4 amperes
Max Short-Duration Discharge Current (10 Sec.) .....	28.0 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-12300A, 12500A

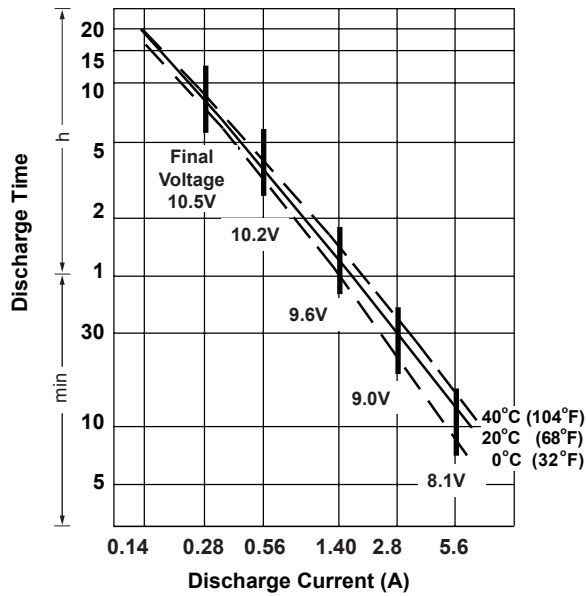
**Shelf Life & Storage**



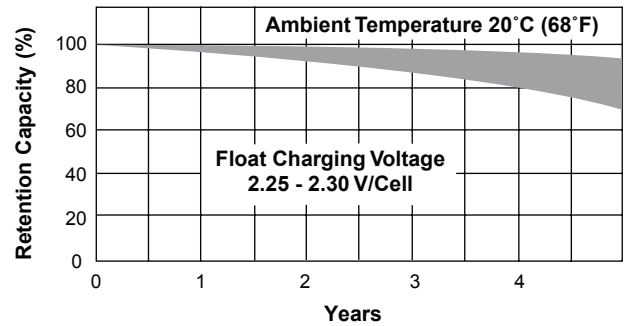
**Discharge Characteristics**



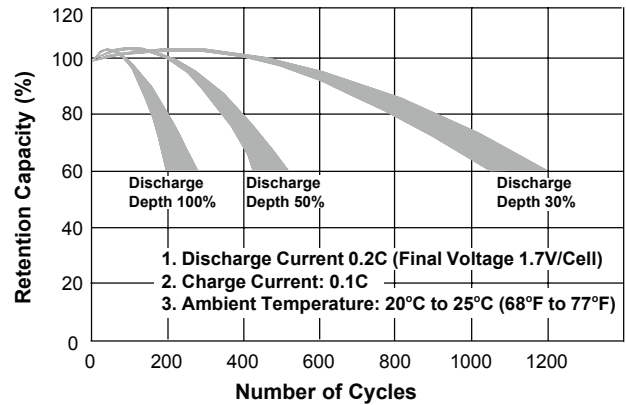
**Discharge Time vs. Discharge Current**



**Life Characteristics in Stand-By Use**



**Life Characteristics in Cyclic Use**



**Charging**

Cycle Applications: Limit initial current to 840mA. 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 28mA. 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..

**Contact Information**

Distributed by:  
**MICROBATTERY.COM**, 7350 NW 35th Terrace, Miami, Florida 33122  
 Customer Service: 1-866-999-2355 | Phone: 1-305-371-9200 | Fax: 1-305-371-9400  
[www.microbattery.com](http://www.microbattery.com)