



## PS-628 6 Volt 2.9 AH Rechargeable Sealed Lead Acid Battery



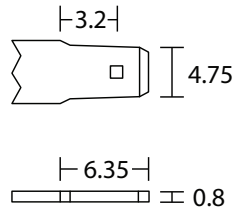
### Features

- 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

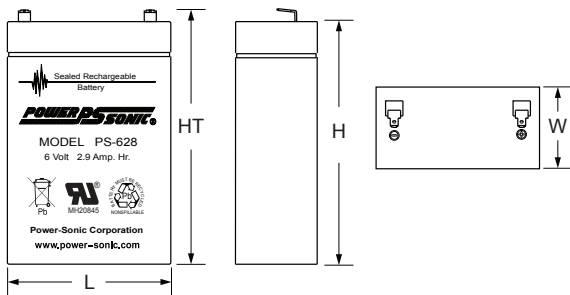
### Terminals

(mm)

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



### Physical Dimensions: in (mm)



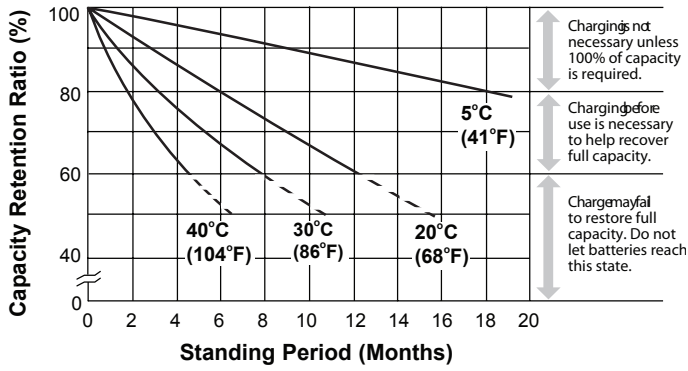
**L: 2.60 (66) W: 1.30 (33) H: 3.86 (98) HT: 4.06 (103)**

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

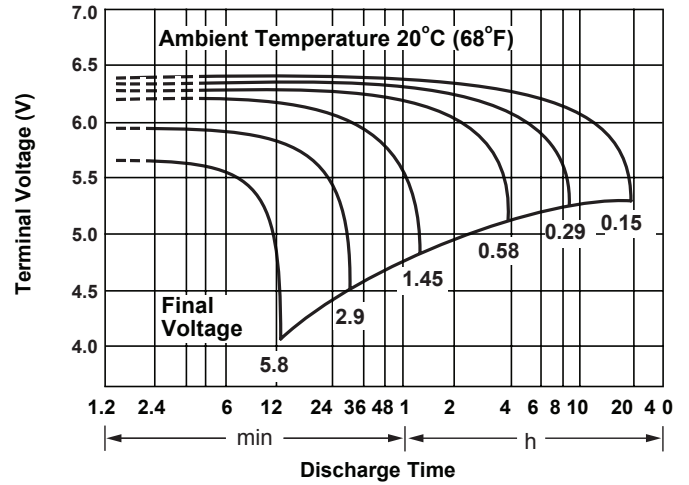
### Performance Specifications

Nominal Voltage	6 volts (3 cells)
Nominal Capacity	
20-hr. (145mA to 5.25 volts)	2.90 AH
10-hr. (260mA to 5.25 volts)	2.60 AH
5-hr. (490mA to 5.10 volts)	2.45 AH
1-hr. (1.8A to 4.50 volts)	1.80 AH
15-min. (5.68A to 4.50 volts)	1.42 AH
Approximate Weight	1.30 lbs. (0.59 kg)
Energy Density (20-hr. rate)	1.33 W-h/in <sup>3</sup> (81.38 W-h/l)
Specific Energy (20-hr. rate)	13.38 W-h/lb (29.51 W-h/kg)
Internal Resistance (approx.)	30 milliohms
Max Discharge Current (7 Min.)	8.7 amperes
Max Short-Duration Discharge Current (10 Sec.)	29.0 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-6500A

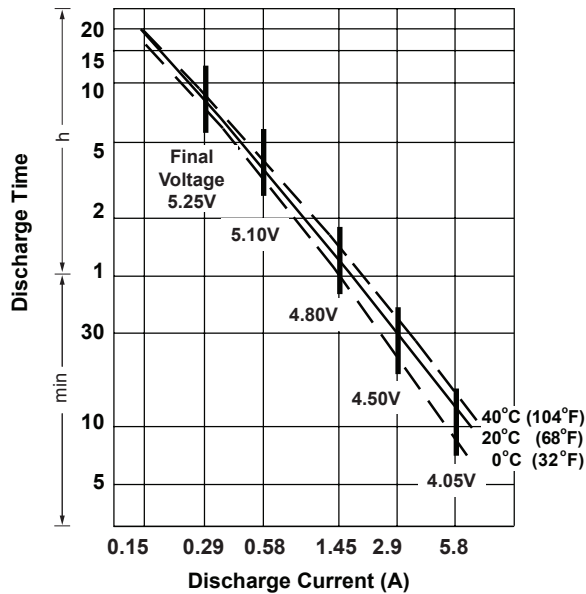
**Shelf Life & Storage**



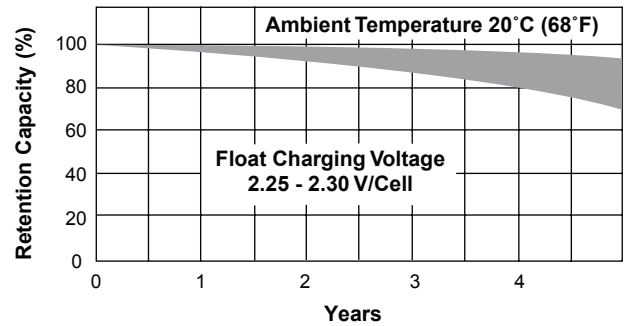
**Discharge Characteristics**



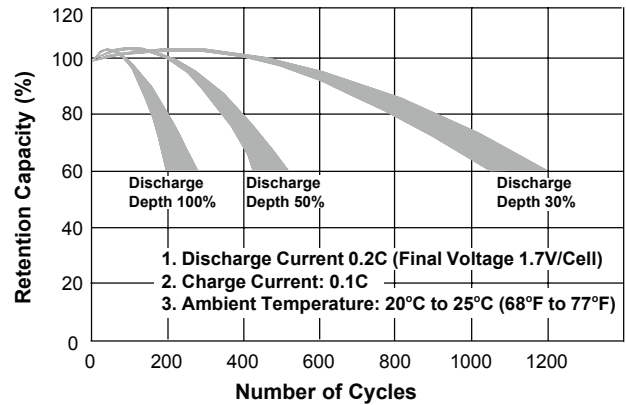
**Discharge Time vs. Discharge Current**



**Life Characteristics in Stand-By Use**



**Life Characteristics in Cyclic Use**



**Charging**

Cycle Applications: Limit initial current to 870mA. 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 29mA. 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.

**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**

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