



**We've Got The Power.™**

## PSG-680 6 Volt 8.0 AH

### Rechargeable Sealed Lead Acid Battery



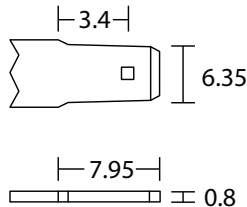
#### Features

- 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

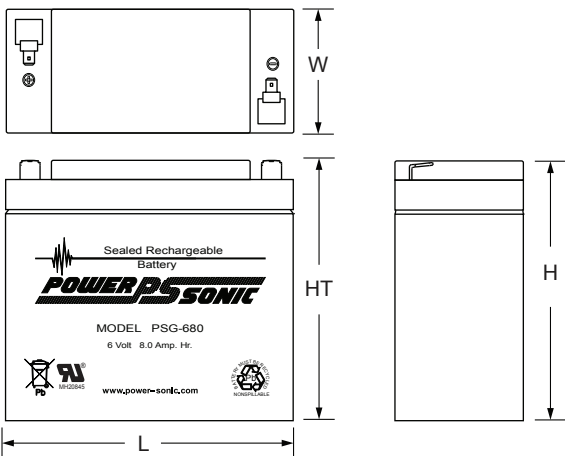
#### Terminals

(mm)

- F2 - Quick disconnect tabs, 0.250" x 0.032"
- Mate with AMP. INC FASTON "250" series



#### Physical Dimensions: in (mm)



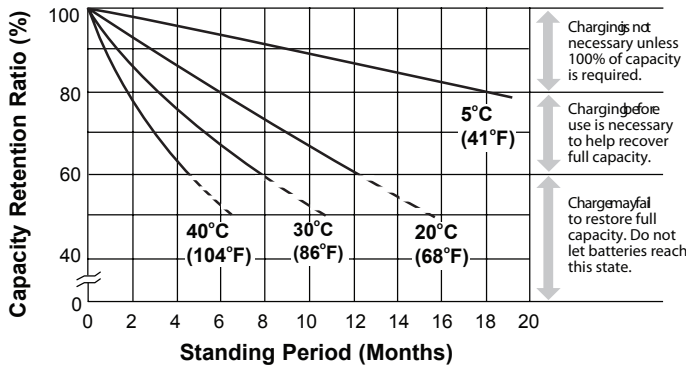
**L: 5.28 (134) W: 1.94 (49) H: 3.98 (101) HT: 3.98 (101)**

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

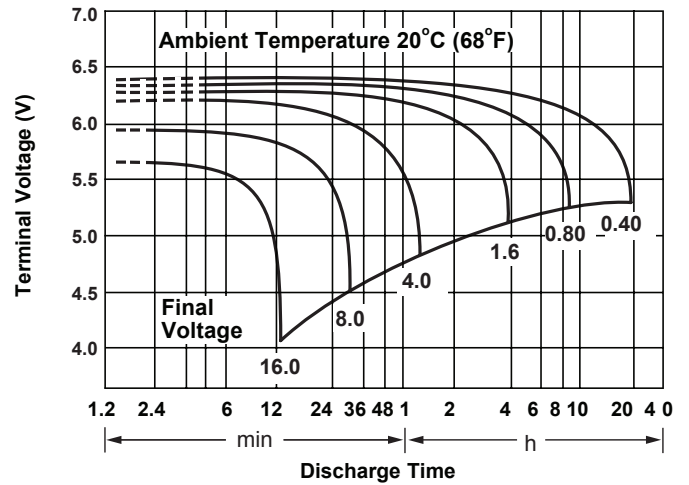
#### Performance Specifications

Nominal Voltage .....	6 volts (3 cells)
Nominal Capacity	
20-hr. (400mA to 5.25 volts) .....	8.00 AH
10-hr. (700mA to 5.25 volts) .....	7.00 AH
5-hr. (1.62A to 5.10 volts) .....	6.50 AH
1-hr. (4.8A to 4.50 volts) .....	4.80 AH
Approximate Weight .....	3.19 lbs. (1.45 kg)
Energy Density (20-hr. rate) .....	1.18 W-h/in <sup>3</sup> (71.85 W-h/l)
Specific Energy (20-hr. rate) .....	15.05 W-h/lb (33.17 W-h/kg)
Internal Resistance (approx.) .....	17 milliohms
Max Discharge Current (7 Min.) .....	24 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 .....	n/a

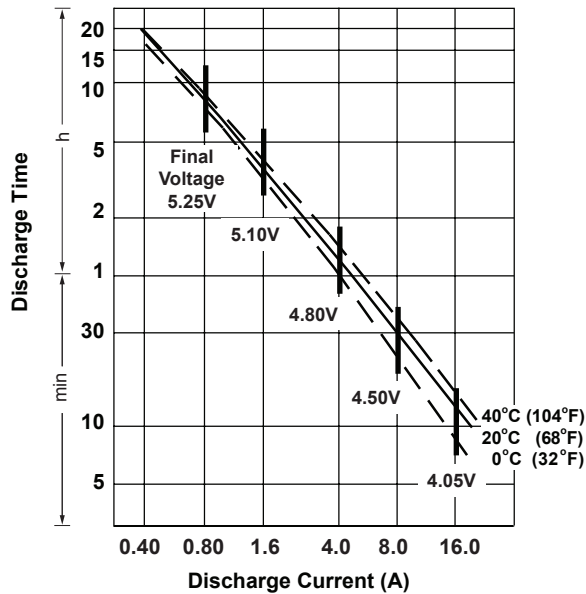
### Shelf Life & Storage



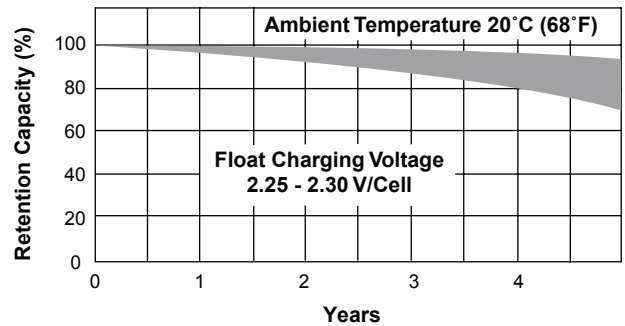
### Discharge Characteristics



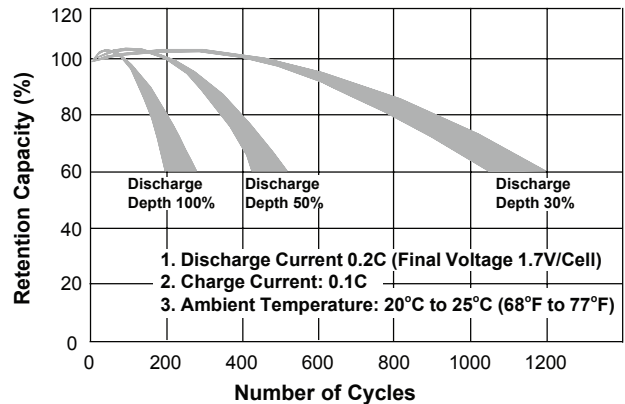
### Discharge Time vs. Discharge Current



### Life Characteristics in Stand-By Use



### Life Characteristics in Cyclic Use



### Charging

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

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)