

## Rechargeable Sealed Lead-Acid Battery

# PS-612

## 6 Volt 1.4 Amp. Hrs.



### Features:

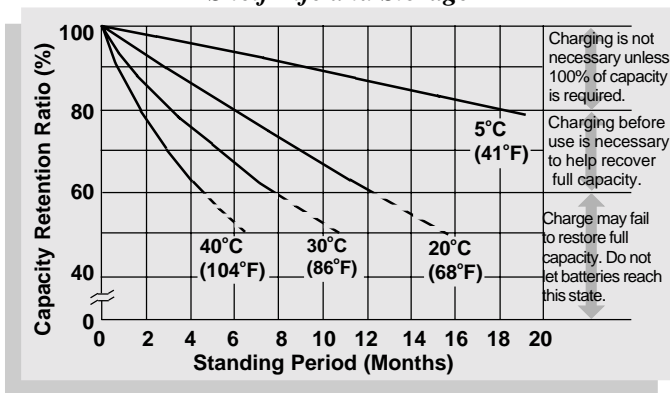
- Absorbent Glass Mat (AGM) technology for superior performance.
- Valve regulated, spill proof construction allows safe operation in any position.
- Power/volume ratio yielding unrivaled energy density.
- Rugged ABS plastic case and cover
- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified.
- U.L. recognized under file number MH 20845.



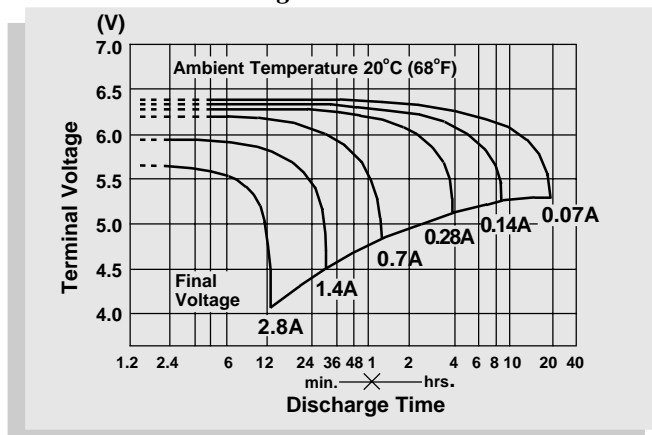
### PERFORMANCE SPECIFICATIONS

<b>Nominal Voltage</b> .....	6 volts (3 cells in series)
<b>Nominal Capacity</b>	
20 hour rate (70mA to 5.25 volts) .....	1.40 A.H.
10 hour rate (130mA to 5.25 volts) .....	1.30 A.H.
5 hour rate (240mA to 5.10 volts) .....	1.20 A.H.
1 hour rate (850mA to 4.50 volts) .....	0.85 A.H.
<b>Approximate Weight</b> .....	0.6 pounds (0.3 kg)
<b>Energy Density (20 hour rate)</b> .....	1.17 Watt-hours/cubic inch (70.8 Watt-hours/l)
<b>Specific Energy (20 hour rate)</b> .....	13.5 Watt-hours/pound (30.0 Watt-hours/kg)
<b>Internal Resistance (Fully Charged Battery)</b> .....	70 milliohms (approximately)
<b>Maximum Discharge Current ( ≤ 7 Min.)</b> .....	4.2 amperes
<b>Maximum Short-Duration Discharge Current ( ≤ 10 Sec.)</b> .....	14 amperes
<b>Terminal configurations</b> .....	"F1": Quick disconnect tabs, 0.187" x 0.032" - Mate with AMP. INC. FASTON "187" series
<b>Shelf Life — % of nominal capacity at 68° F (20° C)</b>	
1 Month.....	97%
3 Months.....	91%
6 Months.....	83%
<b>Operating Temperature Range</b>	
<b>Charge</b> .....	-4°F (-20°C) to 122°F (50°C)
<b>Discharge</b> .....	-4°F (-20°C) to 140°F (60°C)
<b>Case</b> .....	ABS Plastic

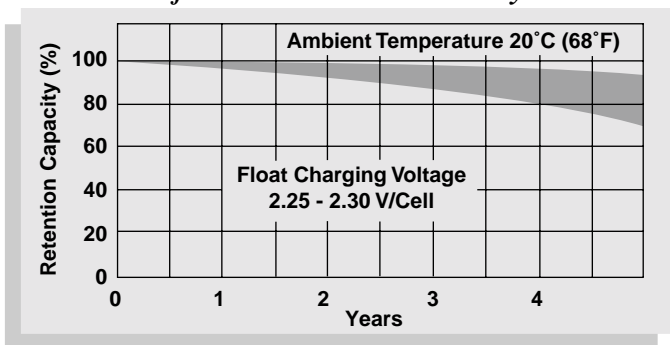
**Shelf Life and Storage**



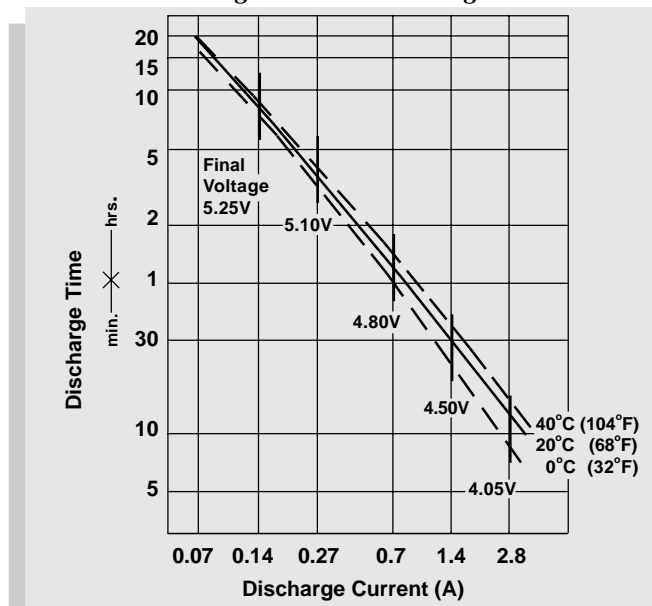
**Discharge Characteristics**



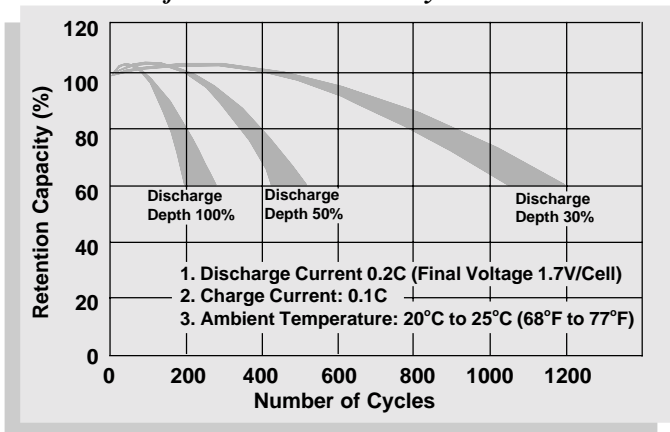
**Life Characteristics in Stand-By Use**



**Discharge Time vs. Discharge Current**

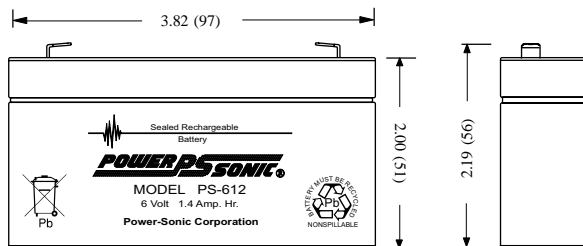
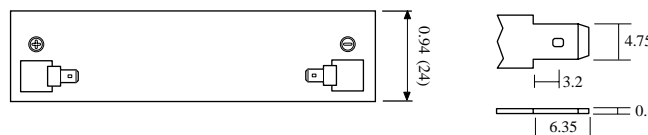


**Life Characteristics in Cyclic Use**



Physical Dimensions: in. (mm)

Terminals: F1 (mm)



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

**CHARGING**

**Cycle Applications:** Limit initial current to 360 mA. 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 approximately 14 mA. Battery is fully charged under these conditions, and charger should either 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 after 6-9 months of storage, otherwise permanent loss of capacity might occur as a result of sulfation.



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