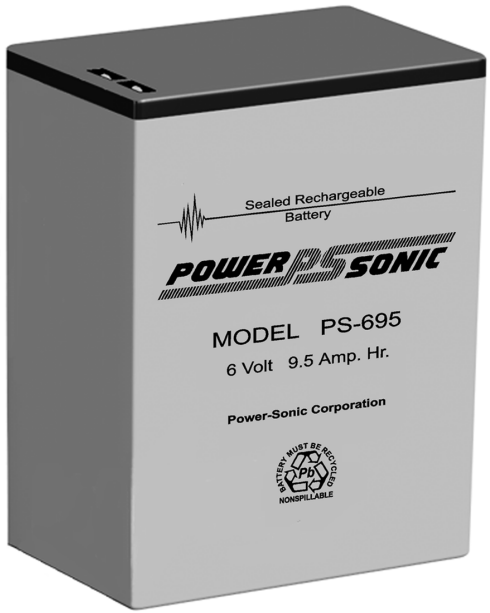


## Rechargeable Sealed Lead-Acid Battery



### PS-695

Power-Sonic rechargeable batteries are lead-lead dioxide systems. The dilute sulphuric acid electrolyte is suspended and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free and leak proof.

PS-695, PS-695 TH, and PS-695 TS are air transport approved, and meet all current requirements set forth by the D.O.T., I.A.T.A., F.A.A., and C.A.B.

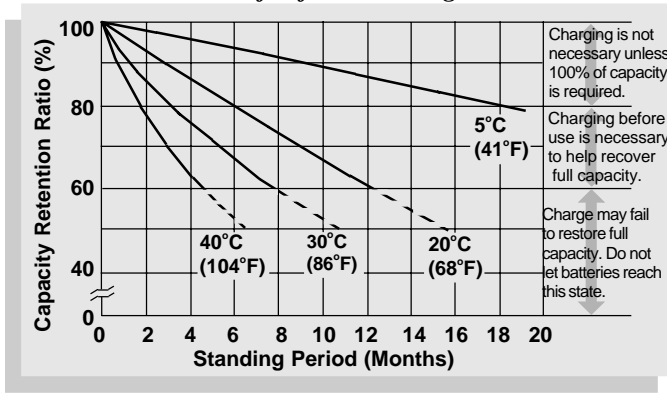
U.L. recognizes models PS-695, PS-695 TH, and PS-695 TS under file number MH 14328.



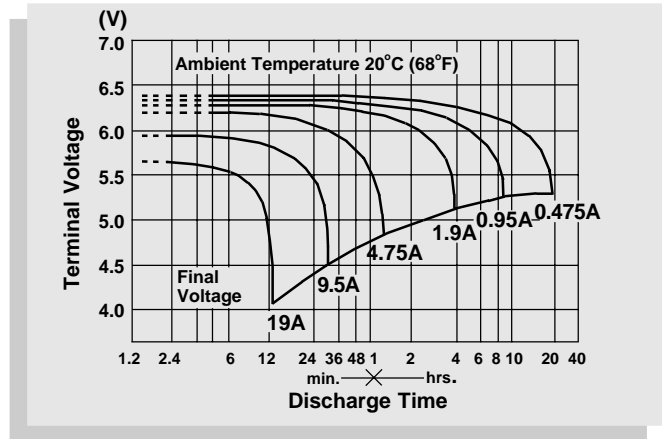
#### PERFORMANCE SPECIFICATIONS

Nominal Voltage.....	6 volts (3 cells in series)
<b>Nominal Capacity</b>	
20 hour rate (475mA to 5.25 volts) .....	9.50 A.H.
10 hour rate (750mA to 5.25 volts) .....	7.50 A.H.
5 hour rate (1350mA to 5.10 volts) .....	6.75 A.H.
1 hour rate (5000mA to 4.50 volts) .....	5.00 A.H.
Approximate Weight.....	5.0 pounds (2.3 kg)
Energy Density (20 hour rate).....	0.88 Watt-hours/cubic inch (53.30 Watt-hours/l)
Specific Energy (20 hour rate).....	11.60 Watt-hours/pound (25.90 Watt-hours/kg)
Internal Resistance (Fully Charged Battery).....	22 milliohms (approximately)
Maximum Discharge Current ( ≤ 5 Min.).....	28.5 amperes
Maximum Short-Duration Discharge Current ( ≤ 5 Sec.).....	95 amperes
Terminals.....	Quick disconnect "FASTON" tabs - Positive: 0.250" x 0.032" Negative: 0.187" x 0.032"
	PS-695 TH and PS-695 TS Toy batteries - Wire Leads with H-Type or S-Type connector
Vibration Test (2000 cycles/minute, 0.10 inch excursion, 2 hours).....	No loss in capacity or performance
<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>	
Charge.....	-4°F (-20°C) to 122°F (50°C)
Discharge.....	-4°F (-20°C) to 140°F (60°C)
Case.....	High-impact Polystyrene

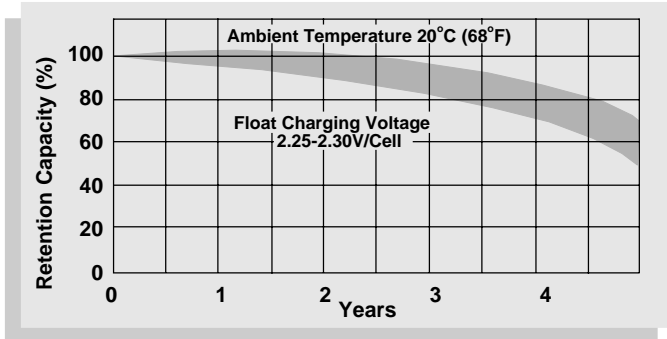
**Shelf Life and Storage**



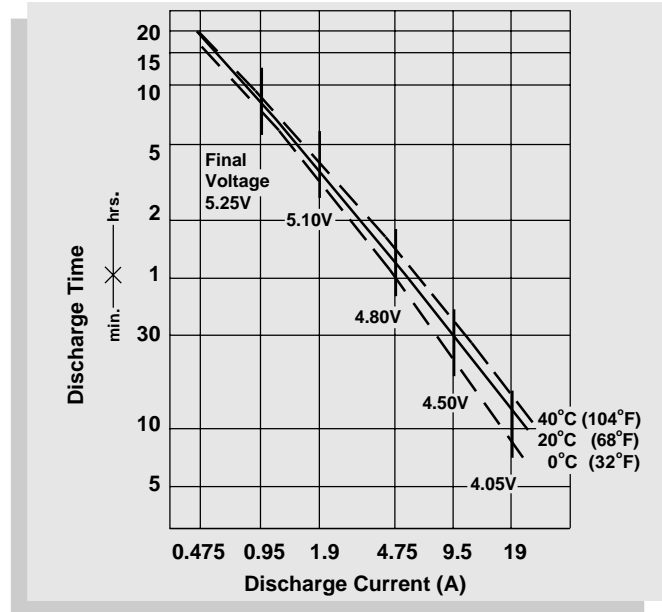
**Discharge Characteristics**



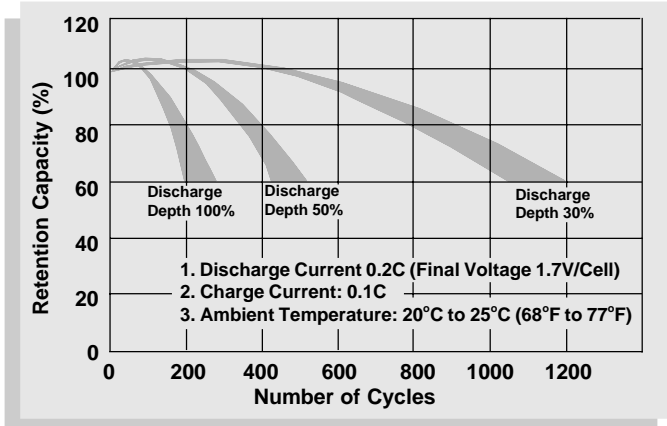
**Life Characteristics in Stand-By Use**



**Discharge Time vs. Discharge Current**

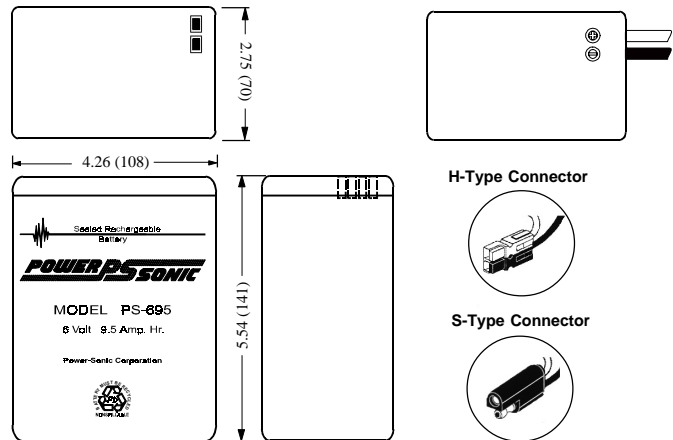


**Life Characteristics in Cyclic Use**



Physical Dimensions: in. (mm)

Toy Batteries



Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions.

**CHARGING**

**Cycle Applications:** Limit initial current to 1900mA. 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 95mA. 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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