

## Rechargeable Sealed Lead-Acid Battery

# PS-1229



**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-1229 is air transport approved, and meets all current requirements set forth by the D.O.T., I.A.T.A., F.A.A., and C.A.B.

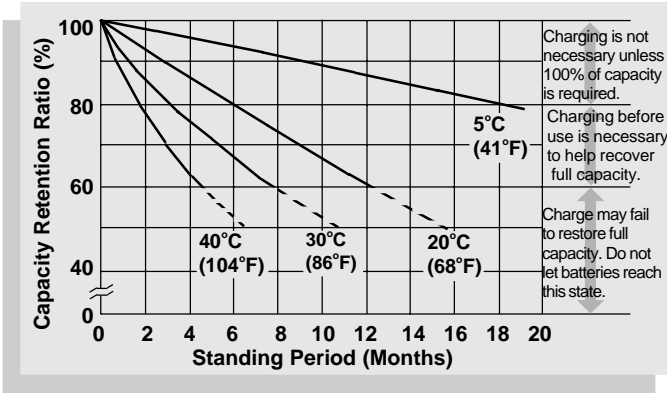
U.L. recognizes model PS-1229 under file number MH 14328.



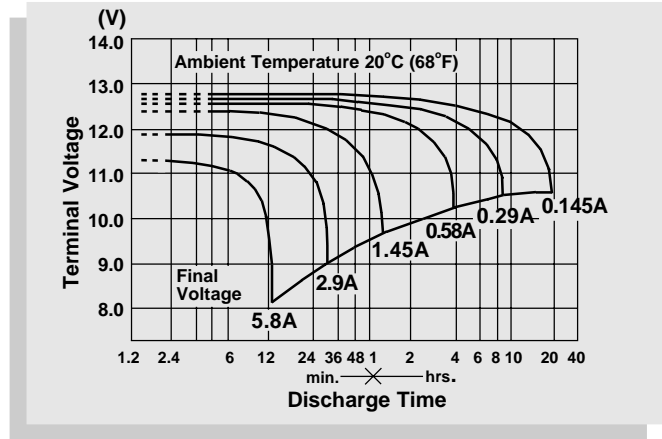
### PERFORMANCE SPECIFICATIONS

<b>Nominal Voltage</b> .....	12 volts (6 cells in series)
<b>Nominal Capacity</b>	
20 hour rate (145mA to 10.50 volts) .....	2.90 A.H.
10 hour rate (260mA to 10.50 volts) .....	2.60 A.H.
5 hour rate (450mA to 10.20 volts) .....	2.25 A.H.
1 hour rate (1750mA to 9.00 volts) .....	1.75 A.H.
<b>Approximate Weight</b> .....	2.20 pounds (1.0 kg)
<b>Energy Density (20 hour rate)</b> .....	1.57 Watt-hours/cubic inch (95.8 Watt-hours/l)
<b>Specific Energy (20 hour rate)</b> .....	15.8 Watt-hours/pound (34.8 Watt-hours/kg)
<b>Internal Resistance (Fully Charged Battery)</b> .....	35 milliohms (approximately)
<b>Maximum Discharge Current ( ≤ 7 Min.)</b> .....	8.7 amperes
<b>Maximum Short-Duration Discharge Current ( ≤ 10 Sec.)</b> .....	29.0 amperes
<b>Terminals</b> .....	Quick disconnect tabs, 0.187" x 0.032" Mate with AMP. INC. FASTON "187" series.
<b>Vibration Test (2000 cycles/minute, 0.10 inch excursion, 2 hours)</b> .....	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>	
<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

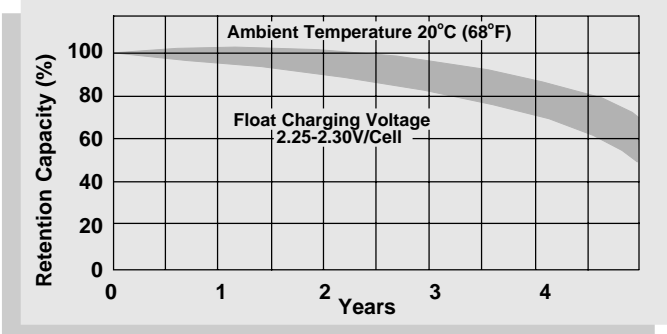
**Shelf Life and Storage**



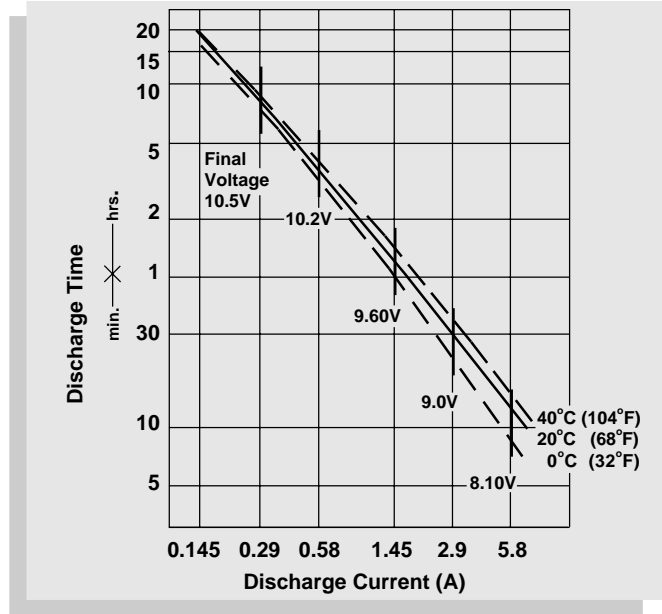
**Discharge Characteristics**



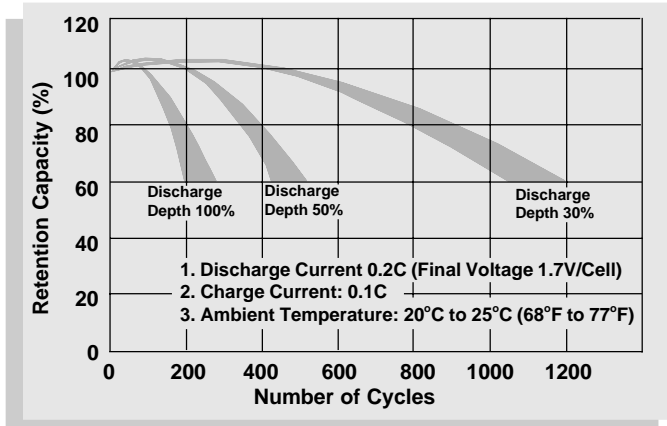
**Life Characteristics in Stand-By Use**



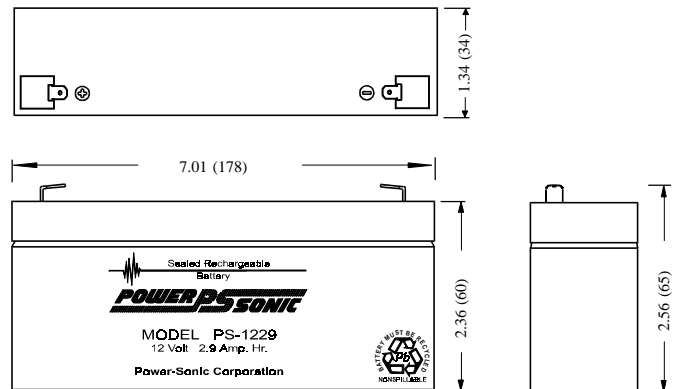
**Discharge Time vs. Discharge Current**



**Life Characteristics in Cyclic Use**



Physical Dimensions: in. (mm)



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 580mA. Charge until battery voltage (under charge) reaches 14.40 to 14.70 volts at 68°F (20°C). Hold at 14.40 to 14.70 volts until current drops to approximately 29mA. 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 13.50 to 13.80 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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