

# Rechargeable Sealed Lead-Acid Battery



## PS-665

**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-665 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.

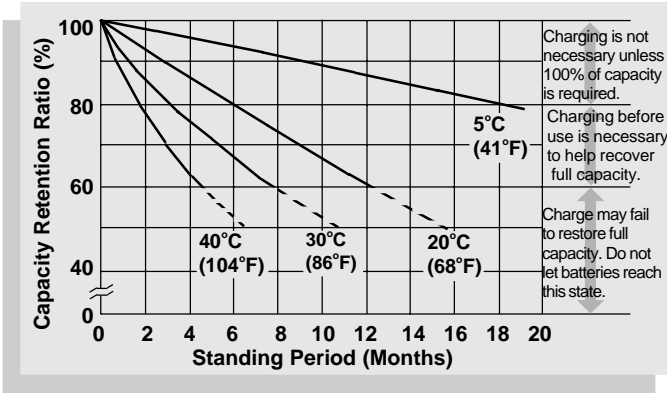
U.L. recognizes model PS-665 under file number MH 14328.



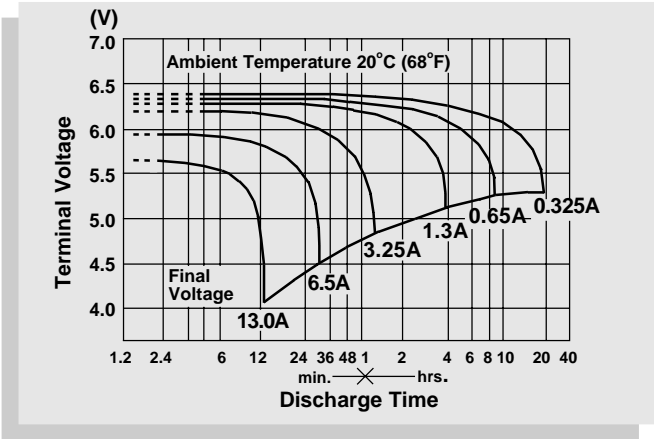
### PERFORMANCE SPECIFICATIONS

<b>Nominal Voltage</b> .....	6 volts (3 cells in series)
<b>Nominal Capacity</b>	
20 hour rate ( 325mA to 5.25 volts) .....	6.5 A.H.
10 hour rate ( 580mA to 5.25 volts) .....	5.8 A.H.
5 hour rate (1050mA to 5.10 volts) .....	5.3 A.H.
1 hour rate ( 4000mA to 4.50 volts) .....	4.0 A.H.
<b>Approximate Weight</b> .....	3.00 pounds (1.4 kg)
<b>Energy Density (20 hour rate)</b> .....	1.13 Watt-hours/cubic inch (69.0 Watt-hours/l)
<b>Specific Energy (20 hour rate)</b> .....	13.0 Watt-hours/pound (27.8 Watt-hours/kg)
<b>Internal Resistance (Fully Charged Battery)</b> .....	20 milliohms (approximately)
<b>Maximum Discharge Current ( ≤ 7 Min.)</b> .....	19.5 amperes
<b>Maximum Short-Duration Discharge Current ( ≤ 10 Sec.)</b> .....	65.0 amperes
<b>Terminals</b> .....	Polarized quick disconnect tabs. Positive: 0.250" x 0.032", Negative: 0.187" x 0.032" Mate with AMP. INC. FASTON "187" series and "250" 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

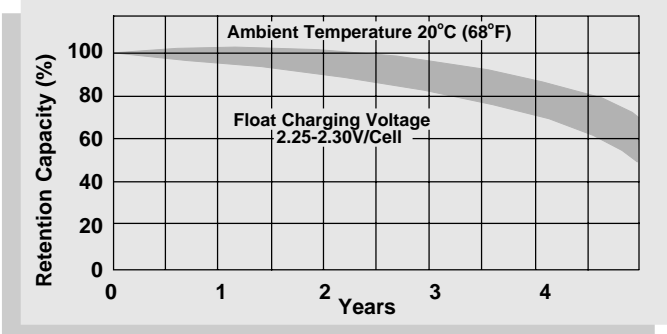
**Shelf Life and Storage**



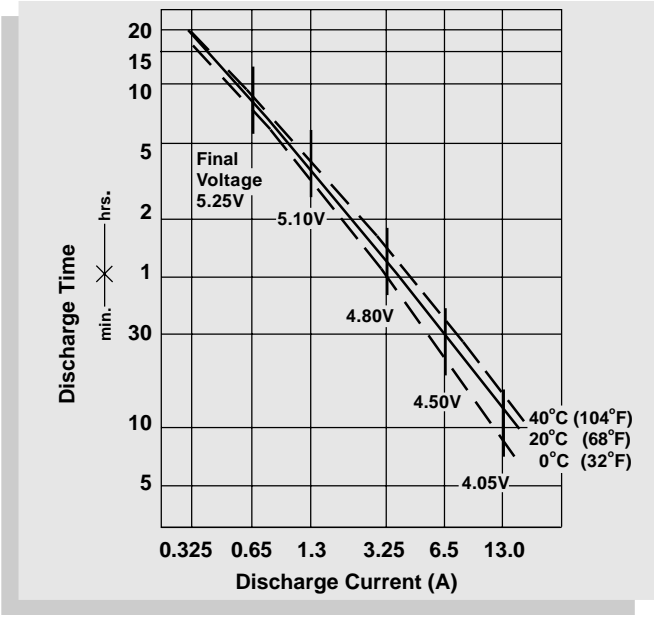
**Discharge Characteristics**



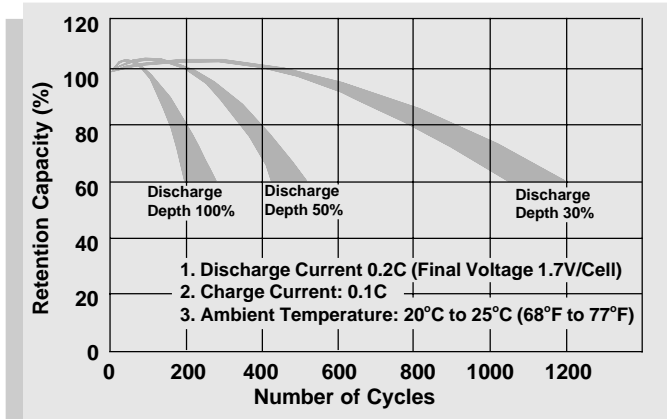
**Life Characteristics in Stand-By Use**



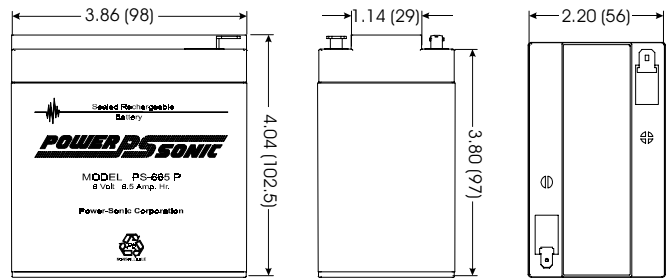
**Discharge Time vs. Discharge Current**



**Life Characteristics in Cyclic Use**



Physical Dimensions: in. (mm)



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

**CHARGING**

**Cycle Applications:** Limit initial current to 1300 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 65 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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