Rechargeable Sealed Lead-Acid Battery

PS-612

Power-Sonic rechargeable batteries are lead-lead dioxide systems. The dilute sulphuric acid electrolyte is suspended and thus immobilized. Should the battery be accidently 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.

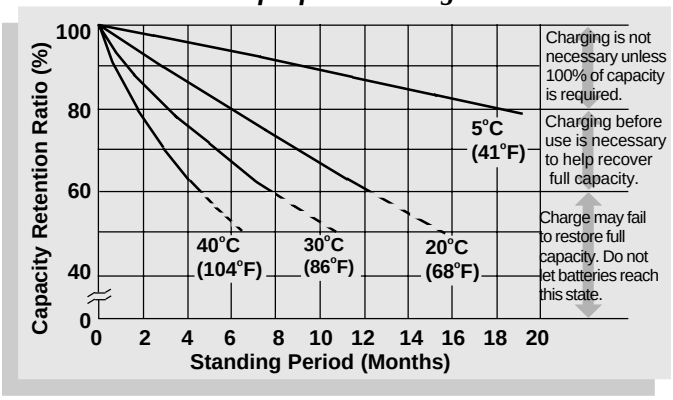
PS-612 is air transport approved, and meets all current requirements set forth by the D.O.T., I.A.T.A., F.A.A., and C.A.B.

U.L. recognizes model PS-612 under file number MH 14328.

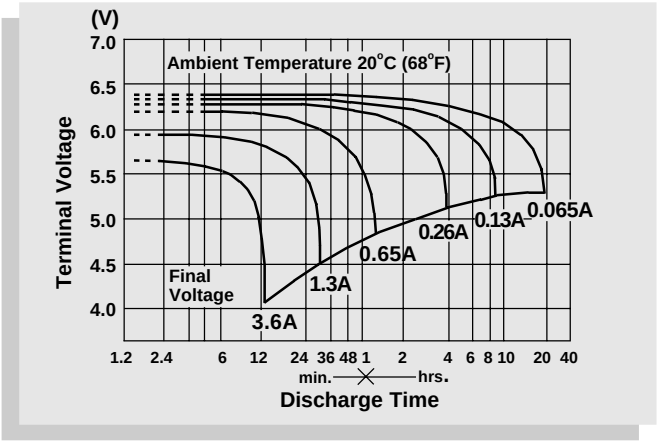
PERFORMANCE SPECIFICATIONS

Nominal Voltage	6 volts (3 cells in series)
Nominal Capacity	
20 hour rate (65mA to 5.25 volts)	1.30 A.H.
10 hour rate (120mA to 5.25 volts)	1.20 A.H.
5 hour rate (210mA to 5.10 volts)	1.05 A.H.
1 hour rate (720mA to 4.50 volts)	0.72 A.H.
Approximate Weight	0.6 pounds (0.3 kg)
Energy Density (20 hour rate)	1.09 Watt-hours/cubic inch (65.7 Watt-hours/l)
Specific Energy (20 hour rate)	13.0 Watt-hours/pound (26.0 Watt-hours/kg)
Internal Resistance (Fully Charged Battery)	70 milliohms (approximately)
Maximum Discharge Current (≤ 7 Min.)	3.9 amperes
Maximum Short-Duration Discharge Current (≤ 10 Sec.)	13 amperes
Terminal configurations	Quick disconnect tabs, 0.187" x 0.032" Mate with AMP. INC. FASTON "187" series
Vibration Test (2000 cycles/minute, 0.10 inch excursion, 2 hours)	No loss in capacity or performance
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	-4°F (-20°C) to 140°F (60°C)
Case	ABS Plastic

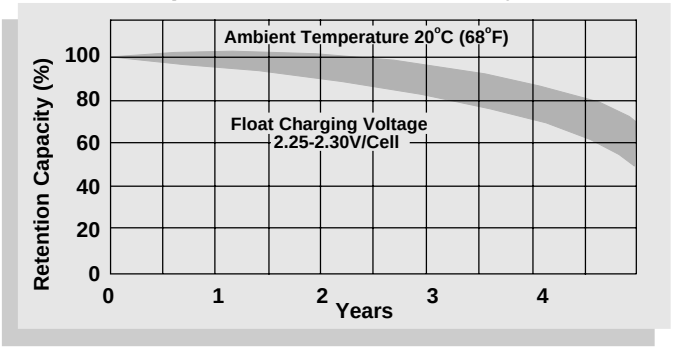
Shelf Life and Storage



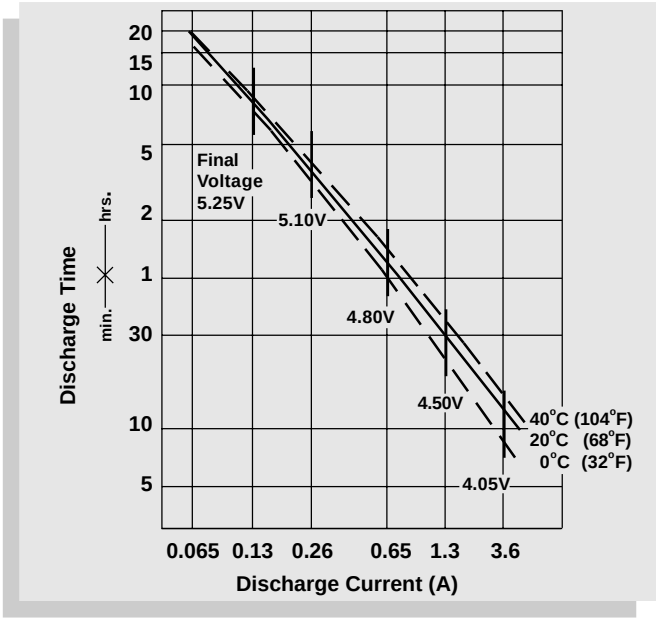
Discharge Characteristics



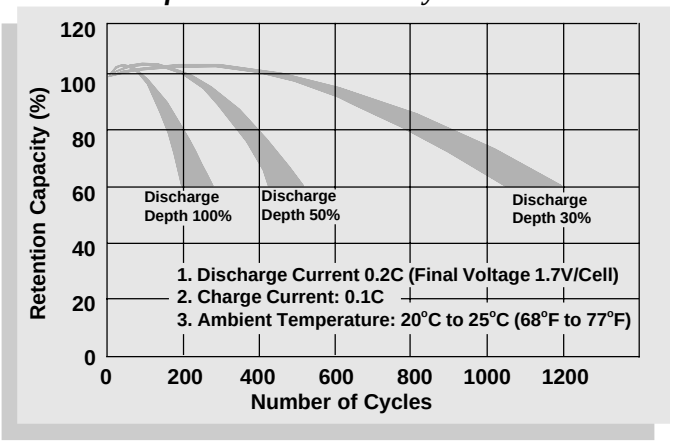
Life Characteristics in Stand-By Use



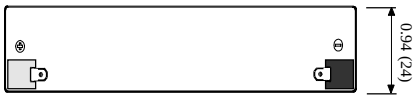
Discharge Time vs. Discharge Current

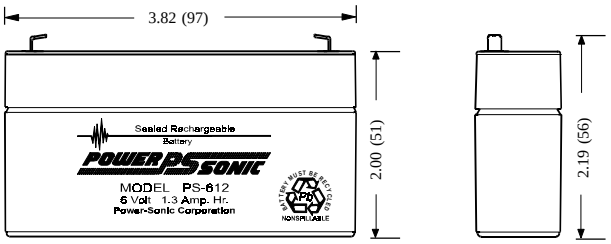


Life Characteristics in Cyclic Use



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 260 mA. 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 13 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 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.

POWER SONIC

SALES & MARKETING
3106 Spring Street
Redwood City, CA 94063 USA
Tel: 650-364-5001 Fax: 650-366-3662
rwcsales@power-sonic.com

BSI REGISTERED FIRM

ISO9002
FM39170
FM39171
www.power-sonic.com

CUSTOMER SERVICE
9163 Siempre Viva Road
San Diego, CA 92173 USA
Tel: 619-661-2030 Fax: 619-661-3648
battery@power-sonic.com