

POWER SONIC

Rechargeable Sealed Lead-Acid Battery

PS-490

4 Volt 9.0 Amp. Hrs.



Features:

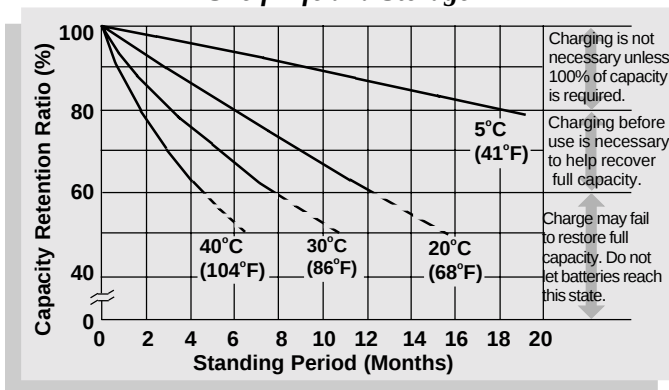
- Absorbent Glass Mat (AGM) technology for superior performance.
- Valve regulated, spill proof construction allows safe operation in any position.
- Power/volume ratio yielding unrivaled energy density.
- Rugged ABS plastic case and cover
- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and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



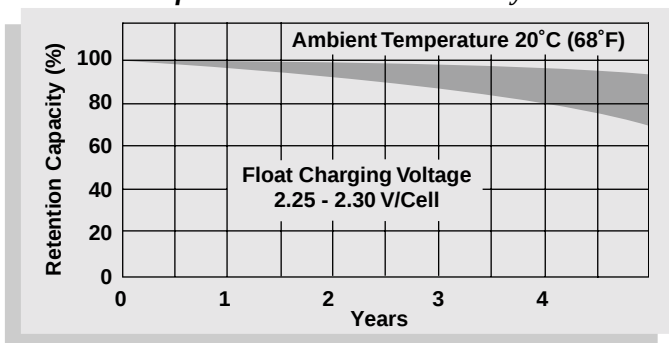
PERFORMANCE SPECIFICATIONS

Nominal Voltage.....	4 volts (2 cells in series)
Nominal Capacity	
20 hour rate (450mA to 3.50 volts)	9.0 A.H.
10 hour rate (830mA to 3.50 volts)	8.3 A.H.
5 hour rate (1.53A to 3.20 volts)	7.7 A.H.
1 hour rate (5.6A to 3.00 volts)	5.6 A.H.
15 min rate (4.4A to 3.00 volts)	4.4 A.H.
Approximate Weight.....	2.5 pounds (1.12 kg)
Energy Density (20 hour rate).....	1.40 Watt-hours/cubic inch (85.3 Watt-hours/l)
Specific Energy (20 hour rate).....	14.4 Watt-hours/pound (32.1 Watt-hours/kg)
Internal Resistance (Fully Charged Battery).....	10 milliohms (approximately)
Maximum Discharge Current (≤ 7 Min.).....	27 amperes
Maximum Short-Duration Discharge Current (≤ 10 Sec.).....	90 amperes
Terminals.....	"F2": Quick disconnect tabs, 0.250" x 0.032" - Mate with AMP. INC FASTON "250" series
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

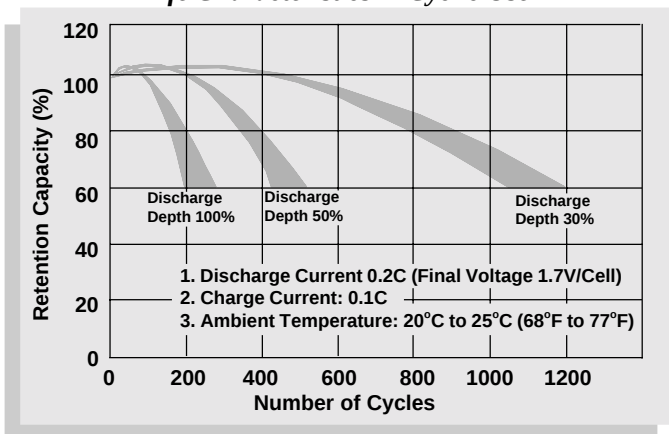
Shelf Life and Storage



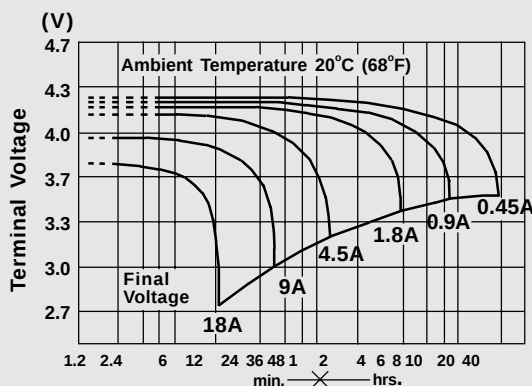
Life Characteristics in Stand-By Use



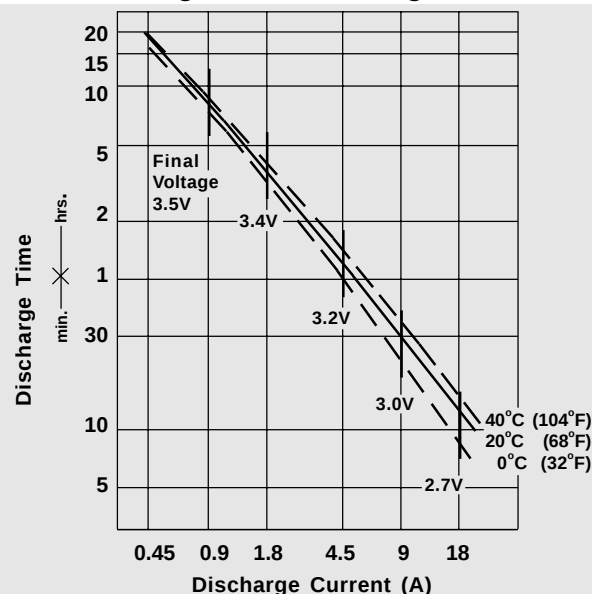
Life Characteristics in Cyclic Use



Discharge Characteristics

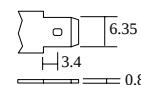
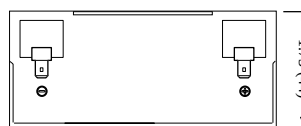


Discharge Time vs. Discharge Current



Physical Dimensions: in. (mm)

Terminals: F2 (mm)

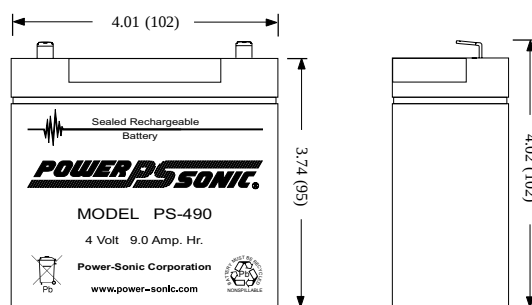


CHARGING

Cycle Applications: Limit initial current to 2.7A. Charge until battery voltage (under charge) reaches 4.80 to 5.00 volts at 68°F (20°C). Hold at 4.80 to 5.00 volts until current drops to approximately 90mA. 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 4.50 to 4.60 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.



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

POWER SONIC

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



www.power-sonic.com

ISO9001-2000
FM39170

CUSTOMER SERVICE
9163 Siempre Viva Road
San Diego, CA 92154 USA
Tel: 619-661-2030 Fax: 619-661-3648
customer-service@power-sonic.com