

POWER  SONIC

Rechargeable Sealed Lead-Acid Battery



PS-640

6 Volt 4.6 Amp. Hrs.

Features:

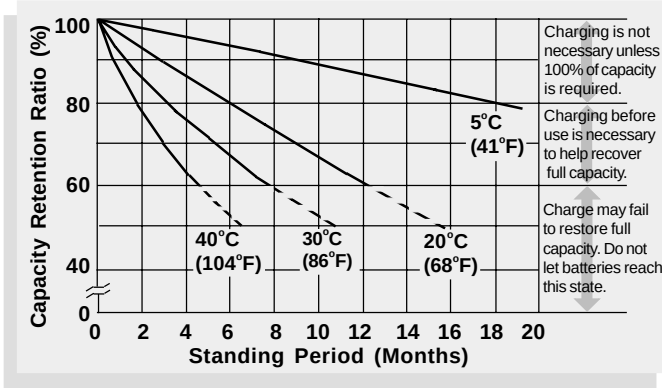
- Absorbent Glass Mat (AGM) technology for superior performance.
- Valve regulated, spill proof construction allows safe operation in any position.
- Power/volume ratio yielding unrivaled energy density.
- Rugged impact resistant case and cover
- Approved for transport by air. D.O.T., I.A.T.A., F.A.A.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



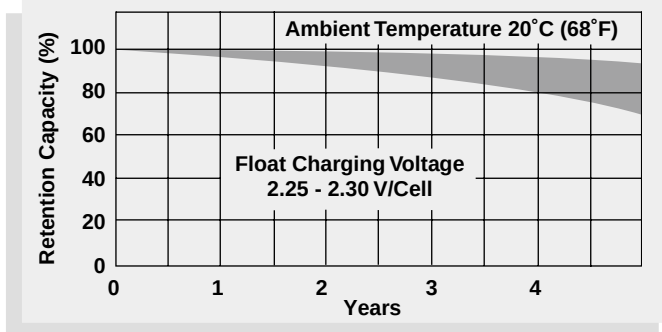
PERFORMANCE SPECIFICATIONS

Nominal Voltage.....	6 volts (3 cells in series)
Nominal Capacity	
20 hour rate (230mA to 5.25 volts).....	4.60 A.H.
10 hour rate (410mA to 5.25 volts).....	4.10 A.H.
5 hour rate (740mA to 5.10 volts).....	3.70 A.H.
1 hour rate (2.85A to 4.50 volts).....	2.85 A.H.
15 min rate (9.00A to 4.50 volts).....	2.25 A.H.
Approximate Weight.....	1.80 pounds (0.82 kg)
Energy Density (20 hour rate).....	1.37 Watt-hours/cubic inch (83.9 Watt-hours/l)
Specific Energy (20 hour rate).....	15.3 Watt-hours/pound (33.7 Watt-hours/kg)
Internal Resistance (Fully Charged Battery).....	16 milliohms (approximately)
Maximum Discharge Current (≤ 7 Min.).....	13.8 amperes
Maximum Short-Duration Discharge Current (≤ 10 Sec.).....	46 amperes
Terminals.....	"F1":: Quick disconnect tabs, 0.187" x 0.032"- Mate with AMP. INC. FASTON "187" 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

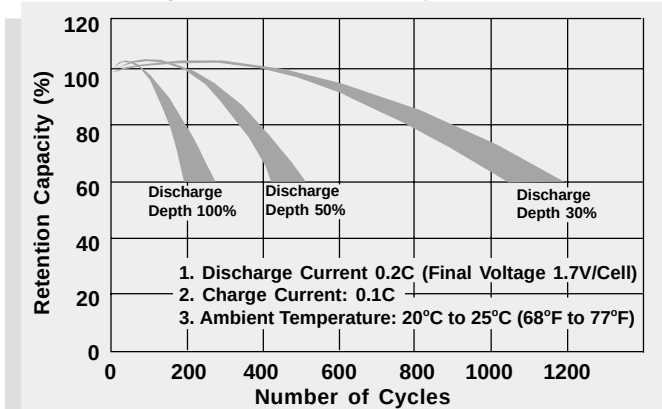
Shelf Life and Storage



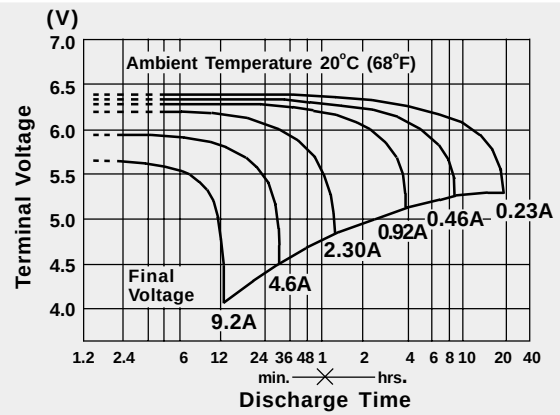
Life Characteristics in Stand-By Use



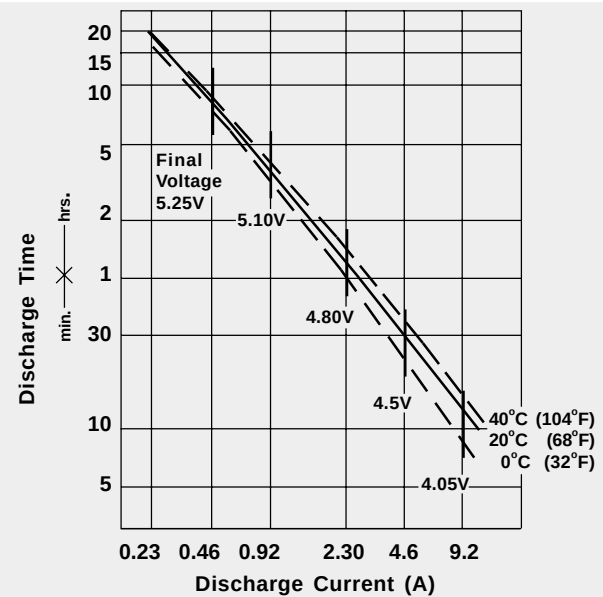
Life Characteristics in Cyclic Use



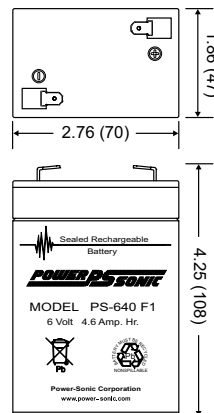
Discharge Characteristics



Discharge Time vs. Discharge Current

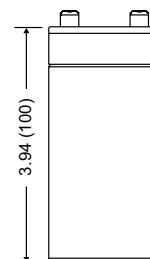


Physical Dimensions



Terminals

"F1" FASTON
0.187" x 0.032"
quick disconnect
tabs.



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 1.35A. 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 46mA. 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.

POWER SONIC

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