Rechargeable Sealed Lead-Acid Battery

PS-628

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-628 is air transport approved, and meets all current requirements set forth by the C.A.B., F.A.A., I.A.T.A. and D.O.T.

U.L. recognizes model PS-628 under file number MH 14328.

PERFORMANCE SPECIFICATIONS

Nominal Voltage ..... 6 volts (3 cells in series)

Nominal Capacity

20 hour rate (140mA to 5.25 volts) ..... 2.80 A.H.

10 hour rate (260mA to 5.25 volts) ..... 2.60 A.H.

5 hour rate (460mA to 5.10 volts) ..... 2.30 A.H.

1 hour rate (1700mA to 4.50 volts) ..... 1.70 A.H.

Approximate Weight ..... 1.25 pounds (0.57 kg)

Energy Density (20 hour rate) ..... 1.29 Watt-hours/cubic inch (78.7 Watt-hours/l)

Specific Energy (20 hour rate) ..... 13.5 Watt-hours/pound (29.7 Watt-hours/kg)

Internal Resistance (Fully Charged Battery) ..... 19.3 milliohms (approximately)

Maximum Discharge Current (≤ 7 Min.) ..... 8.4 amperes

Maximum Short-Duration Discharge Current (≤ 10 Sec.) ..... 28 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%

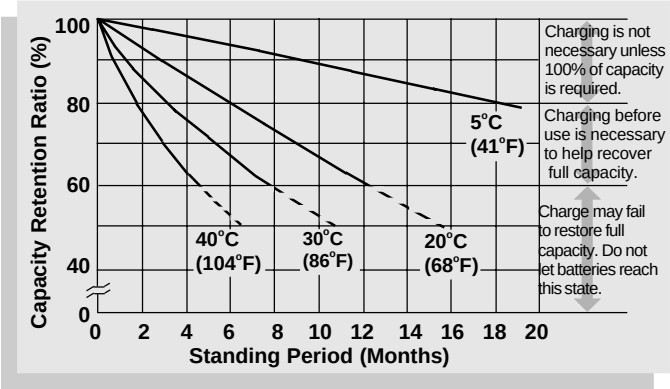
Operating Temperature Range

Charge ..... -4°F (-20°C) to 122°F (50°C)

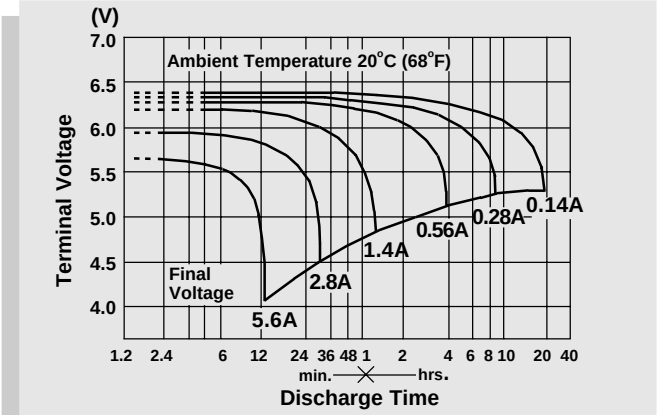
Discharge ..... -4°F (-20°C) to 140°F (60°C)

Case ..... ABS Plastic

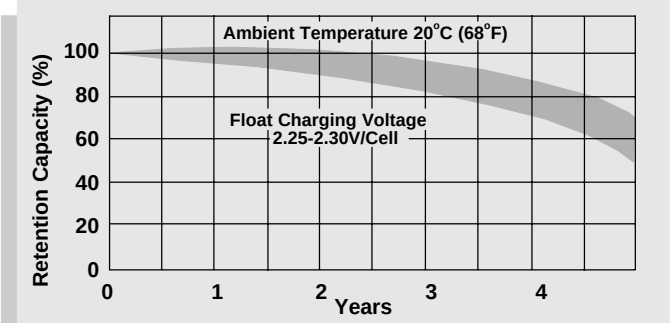
Shelf Life and Storage



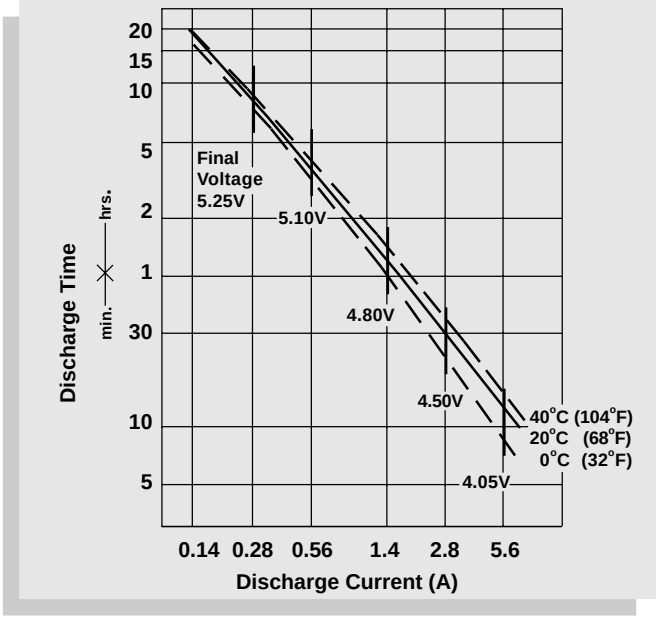
Discharge Characteristics



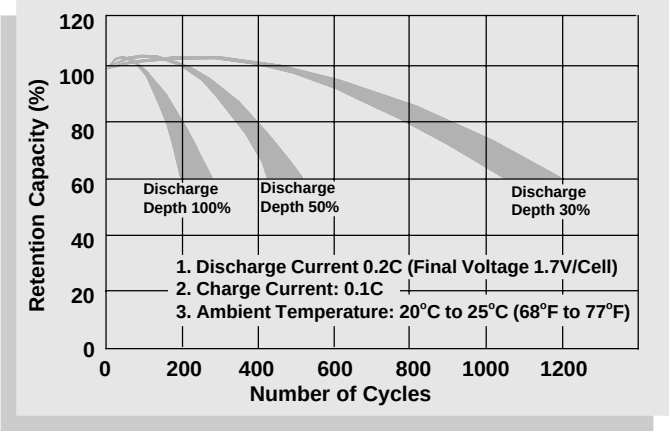
Life Characteristics in Stand-By Use



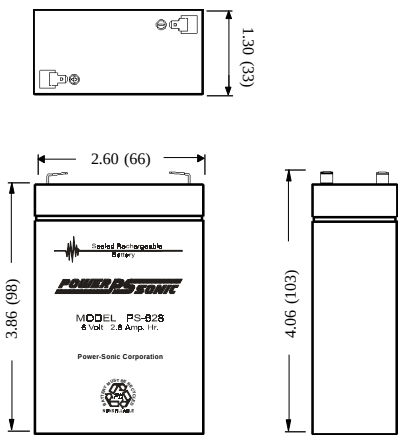
Discharge Time vs. Discharge Current



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 560mA. 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 28mA. 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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