



# Rechargeable Sealed Lead-Acid Battery

## PS-1238

### 12 Volt 3.8 Amp. Hrs.



#### Features:

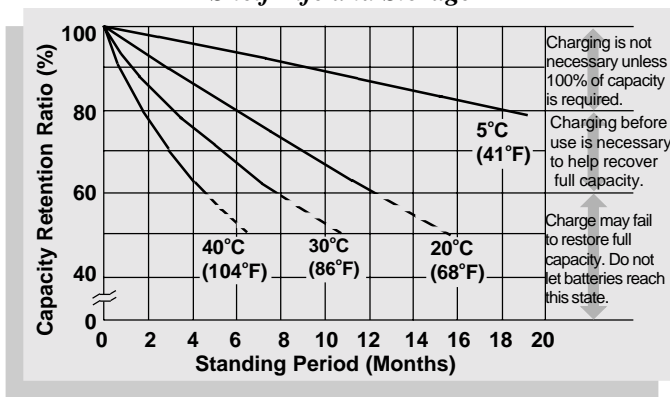
- Absorbent Glass Mat (AGM) technology for superior performance.
- Valve regulated, spill proof construction allows safe operation in any position.
- Power/volume ratio yielding unrivaled energy density.
- Rugged ABS plastic case and cover
- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and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



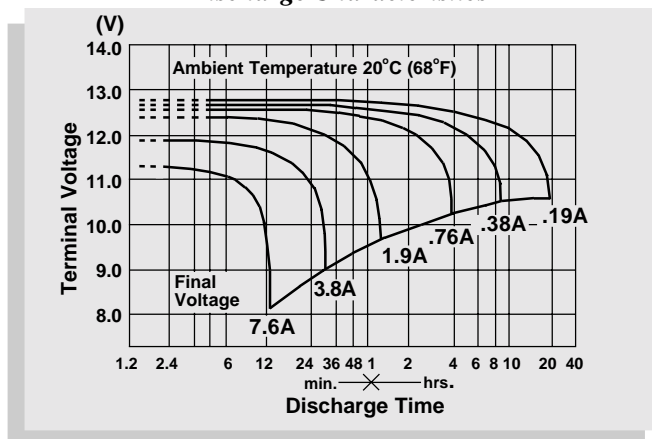
#### PERFORMANCE SPECIFICATIONS

|  |  |
|--|--|
| <b>Nominal Voltage</b> .....                                       | 12 volts (6 cells in series)   |
| <b>Nominal Capacity</b>  |  |
| 20 hour rate (190mA to 10.50 volts) .....                          | 3.80 A.H.  |
| 10 hour rate (350mA to 10.50 volts) .....                          | 3.50 A.H.  |
| 5 hour rate (640mA to 10.20 volts) .....                           | 3.20 A.H.  |
| 1 hour rate (2.40A to 9.00 volts) .....                            | 2.40 A.H.  |
| 15 min rate (7.40A to 9.00 volts) .....                            | 1.80 A.H.  |
| <b>Approximate Weight</b> .....                                    | 3.75 pounds (1.70 kg)  |
| <b>Energy Density (20 hour rate)</b> .....                         | 1.16 Watt-hours/cubic inch (71.1 Watt-hours/l)                                       |
| <b>Specific Energy (20 hour rate)</b> .....                        | 12.2 Watt-hours/pound (26.8 Watt-hours/kg)   |
| <b>Internal Resistance (Fully Charged Battery)</b> .....           | 32 milliohms (approximately)   |
| <b>Maximum Discharge Current ( ≤ 7 Min.)</b> .....                 | 12 amperes   |
| <b>Maximum Short-Duration Discharge Current ( ≤ 10 Sec.)</b> ..... | 38 amperes   |
| <b>Terminals</b> .....   | "F1": Quick disconnect tabs, 0.187" x 0.032", Mate with AMP. INC FASTON "187" series |
| <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  |

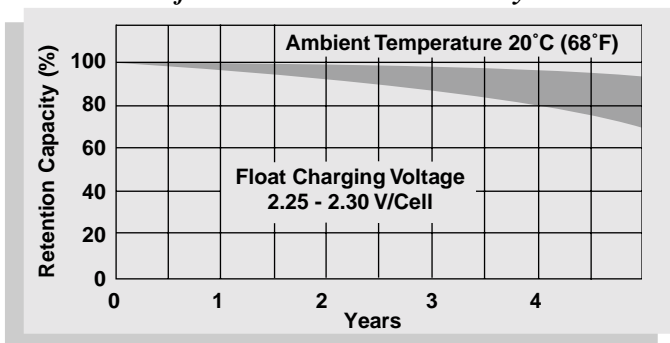
**Shelf Life and Storage**



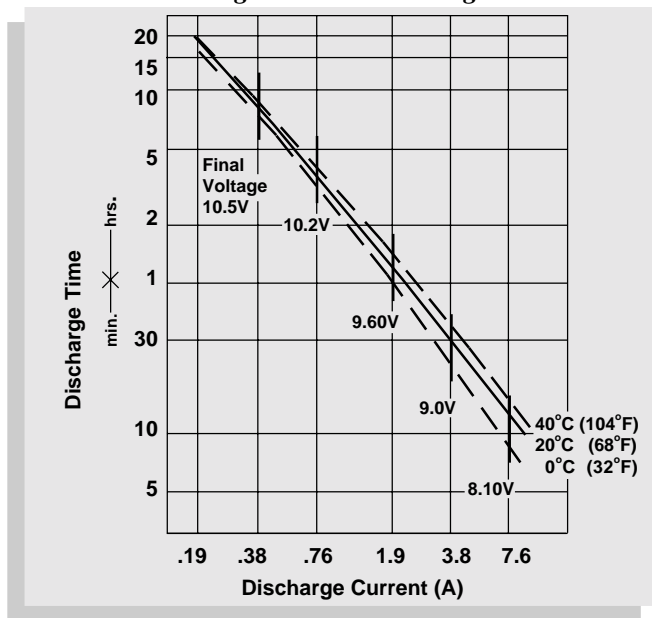
**Discharge Characteristics**



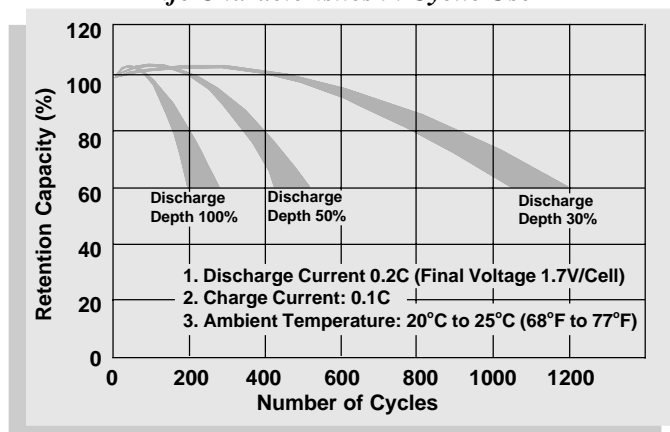
**Life Characteristics in Stand-By Use**



**Discharge Time vs. Discharge Current**

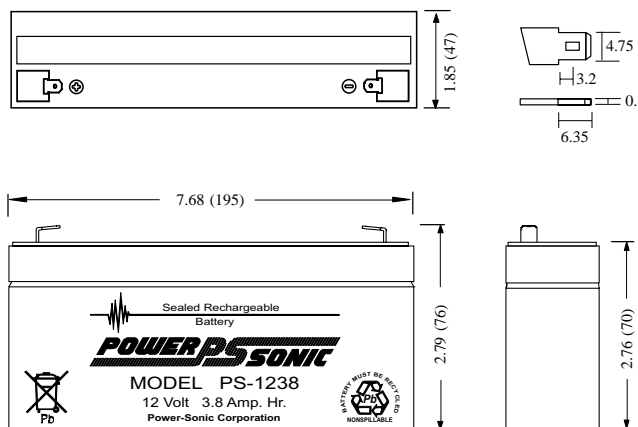


**Life Characteristics in Cyclic Use**



Physical Dimensions: in. (mm)

Terminals: F1 (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 1.2A. 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 38mA. 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.



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