



# Rechargeable Sealed Lead-Acid Battery

## PS-12120

### 12 Volt 12.0 Amp. Hrs.



#### Features:

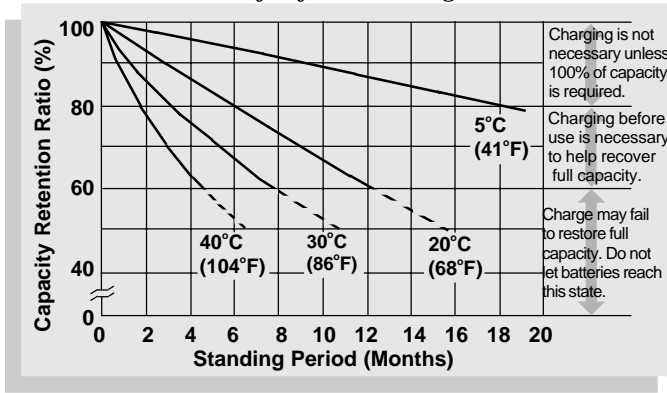
- Absorbent Glass Mat (AGM) technology for superior performance.
- Valve regulated, spill proof construction allows safe operation in any position.
- Power/volume ratio yielding unrivaled energy density.
- Rugged ABS plastic case and cover
- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and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



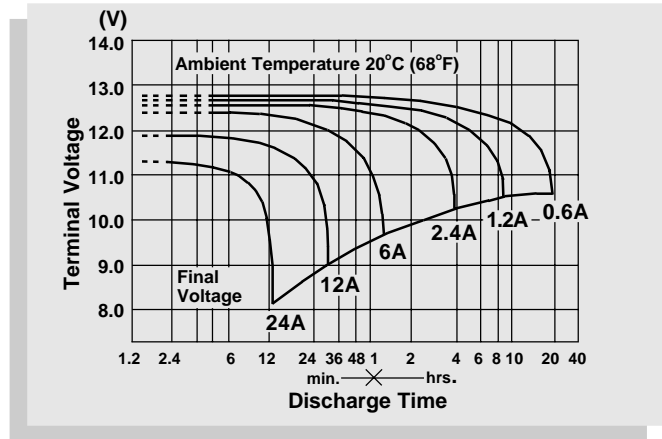
#### PERFORMANCE SPECIFICATIONS

|  |  |
|--|--|
| <b>Nominal Voltage</b> .....   | 12 volts (6 cells in series)   |
| <b>Nominal Capacity</b>  |  |
| 20 hour rate ( 600mA to 10.50 volts) .....                                     | 12.0 A.H.  |
| 10 hour rate ( 1100mA to 10.50 volts) .....                                    | 11.0 A.H.  |
| 5 hour rate ( 2100mA to 10.20 volts) .....                                     | 10.5 A.H.  |
| 1 hour rate (9000mA to 09.00 volts) .....                                      | 9.0 A.H.   |
| <b>Approximate Weight</b> .....  | 9.0 pounds (4.1 kg)  |
| <b>Energy Density (20 hour rate)</b> .....                                     | 1.69 Watt-hours/cubic inch (103.6 Watt-hours/l)                                  |
| <b>Specific Energy (20 hour rate)</b> .....                                    | 16.4 Watt-hours/pound (35.1 Watt-hours/kg)                                       |
| <b>Internal Resistance (Fully Charged Battery)</b> .....                       | 16 milliohms (approximately)   |
| <b>Maximum Discharge Current ( ≤ 7 Min.)</b> .....                             | 36 amperes   |
| <b>Maximum Short-Duration Discharge Current ( ≤ 10 Sec.)</b> .....             | 120 amperes  |
| <b>Terminal configurations</b> .....   | Quick disconnect tabs, 0.250" x 0.032"<br>Mate with AMP. INC FASTON "250" series |
| <b>Vibration Test (2000 cycles/minute, 0.10 inch excursion, 2 hours)</b> ..... | No loss in capacity or performance   |
| <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  |

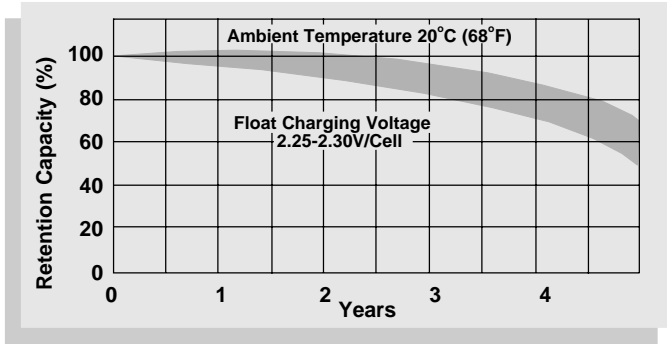
**Shelf Life and Storage**



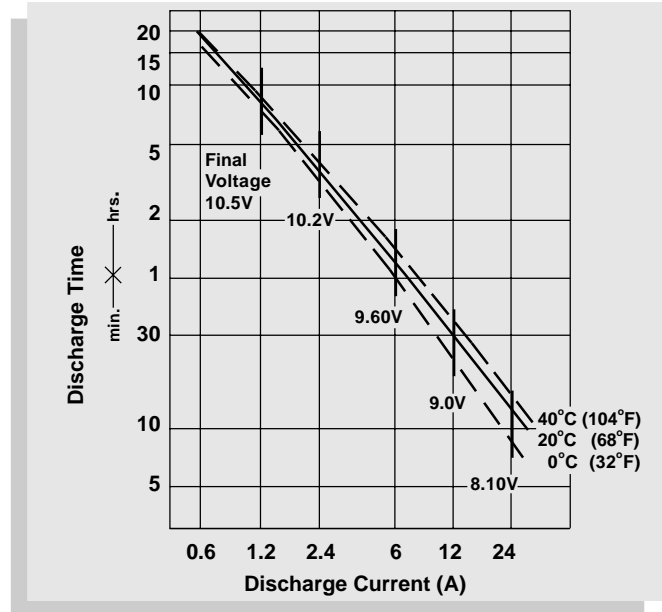
**Discharge Characteristics**



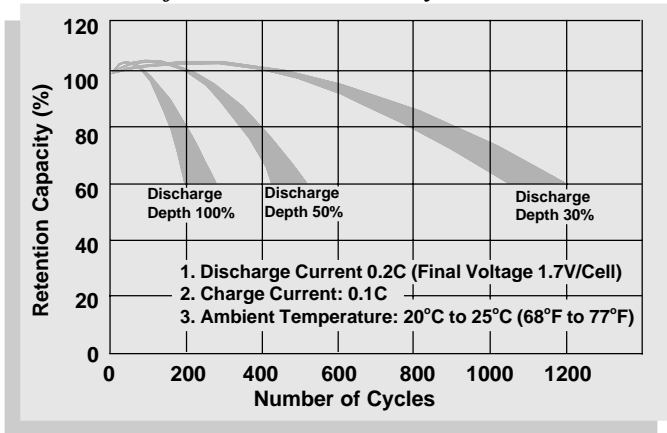
**Life Characteristics in Stand-By Use**



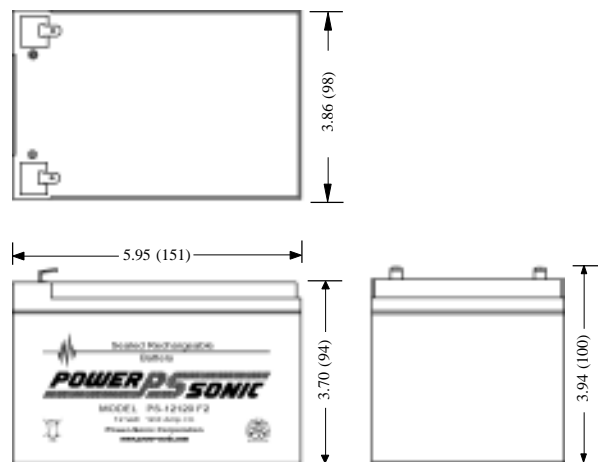
**Discharge Time vs. Discharge Current**



**Life Characteristics in Cyclic Use**



Physical Dimensions: in. (mm)



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 2400mA. 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 120mA. 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.