

# PS-Series General Purpose Batteries

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All PS Series batteries feature:

- 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.
- 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.
- CE certified.



2-volt



4-Volt



6-Volt



8-Volt



12-Volt

**Rechargeable Sealed Lead-Acid Battery**



**PS-12330  
12 Volt 33 Amp. Hrs.**

**Features:**

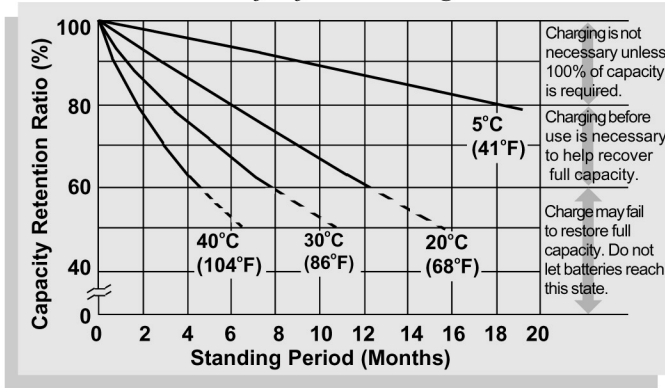
- Absorbent Glass Mat (AGM) technology for superior performance.
- Valve regulated, spill-proof construction.
- Power/volume ratio yielding unrivaled energy density.
- Rugged ABS plastic case and cover
- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified.
- U.L. recognized under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



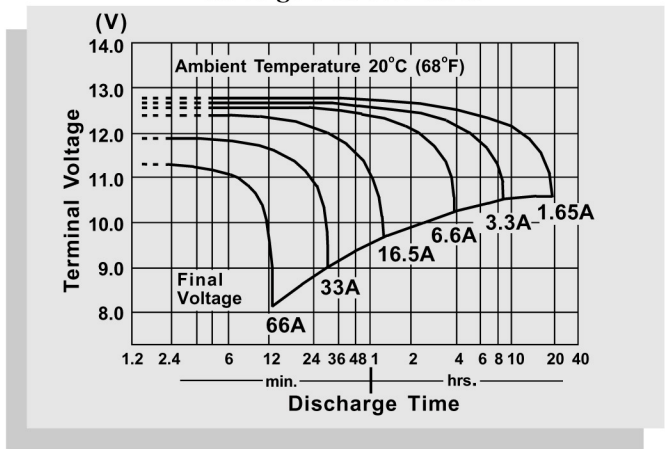
**PERFORMANCE SPECIFICATIONS**

<b>Nominal Voltage</b> .....	12 volts (6 cells in series)
<b>Nominal Capacity</b>	
20 hour rate (1650mA to 10.50 volts) .....	33.0 A.H.
10 hour rate (3000mA to 10.50 volts) .....	30.0 A.H.
5 hour rate (5000mA to 10.20 volts) .....	25.0 A.H.
1 hour rate (19.8 A to 9.00 volts) .....	19.8 A.H.
<b>Approximate Weight</b> .....	23.1 pounds (10.5 kg)
<b>Energy Density (20 hour rate)</b> .....	1.57 Watt-hours/cubic inch (95.9 Watt-hours/l)
<b>Specific Energy (20 hour rate)</b> .....	17.1 Watt-hours/pound (37.7 Watt-hours/kg)
<b>Internal Resistance (Fully Charged Battery)</b> .....	10 milliohms (approximately)
<b>Maximum Discharge Current ( ≤ 7 Min.)</b> .....	99 amperes
<b>Maximum Short-Duration Discharge Current ( ≤ 10 Sec.)</b> .....	330 amperes
<b>Terminals</b> .....	“NB”: Heavy duty terminal posts with nut and bolt fasteners
<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

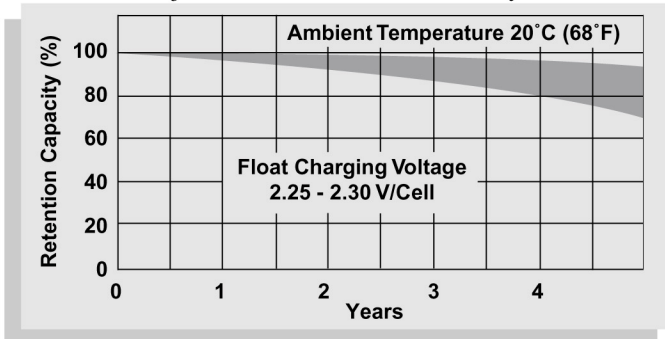
**Shelf Life and Storage**



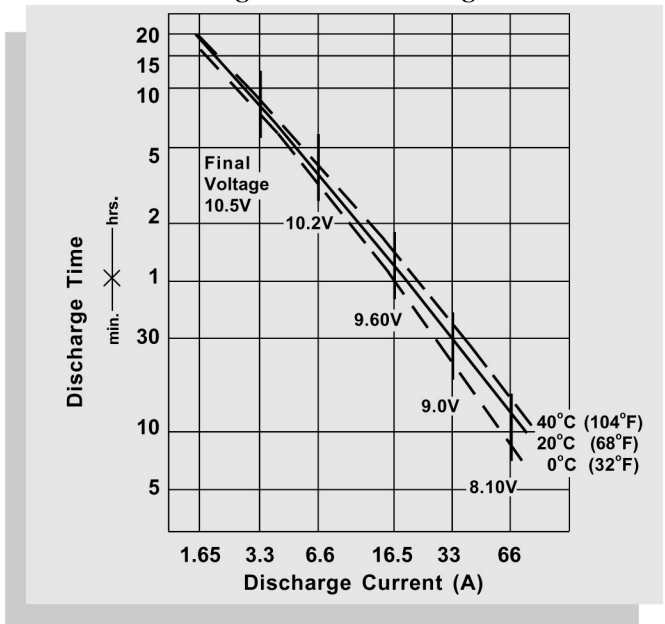
**Discharge Characteristics**



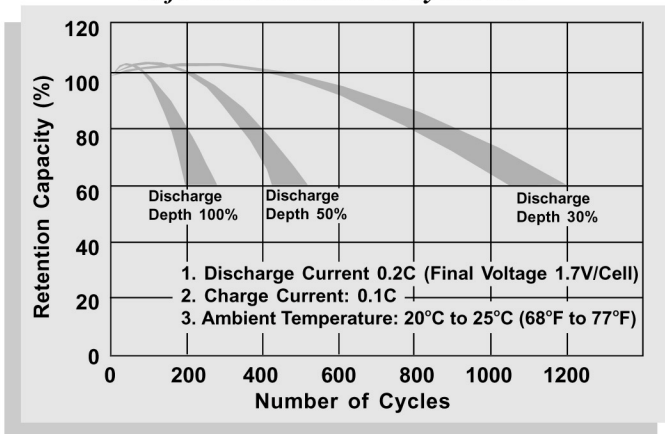
**Life Characteristics in Stand-By Use**



**Discharge Time vs. Discharge Current**

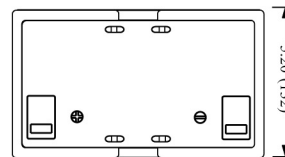


**Life Characteristics in Cyclic Use**

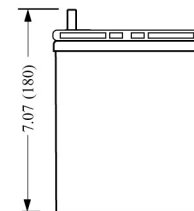
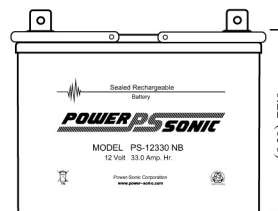
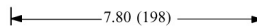


Physical Dimensions: in. (mm)

Terminal Options



Nut & Bolt Connector



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 9.6A. 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 330mA. 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.



ISO9001-2000  
FM39170