

# PS-12200 12 Volt 20.0 AH

## Rechargeable Sealed Lead Acid Battery

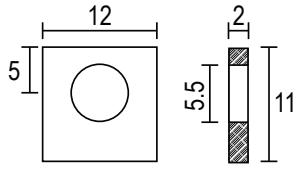


We've Got The Power.™

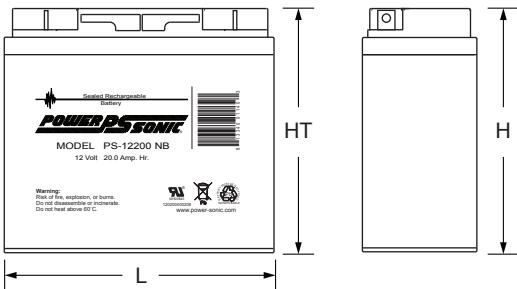
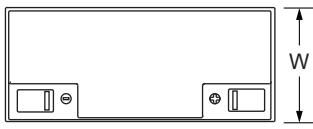


### Terminals (mm)

- Tin plated brass post with nut & bolt connectors



### Physical Dimensions: in (mm)



L: 7.13 (181) W: 3.00 (76) H: 6.57 (167) HT: 6.50 (165)

Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

### 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 ABS case and cover (UL94-HB)
- 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** ..... 12 volts (6 cells)

**Nominal Capacity**

20-hr. (1.0A to 10.50 volts) .....	20.0 AH
10-hr. (2.0A to 10.50 volts) .....	19.0 AH
5-hr. (3.4A to 10.20 volts) .....	17.0 AH
1-hr. (12A to 9.00 volts) .....	12.0 AH
15-min. (35A to 9.00 volts) .....	8.75 AH

**Approximate Weight** ..... 13.20 lbs. (6.00 kg)

**Energy Density** (20-hr. rate) ..... 1.71 W-h/in<sup>3</sup> (104.22 W-h/l)

**Specific Energy** (20-hr. rate) ..... 18.18 W-h/lb (40.08 W-h/kg)

**Internal Resistance** (approx.) ..... 9 milliohms

**Max Discharge Current** (7 Min.) ..... 60.0 amperes

**Max Short-Duration Discharge Current** (10 Sec.) ..... 200.0 amperes

**Shelf Life** (% of nominal capacity at 68°F (20°C))

1 Month .....	97%
3 Months.....	91%
6 Months .....	83%

**Operating Temperature Range**

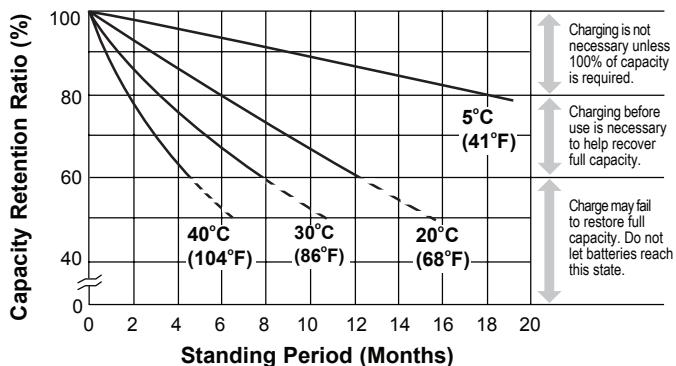
Charge..... -4°F (-20°C) to 122°F (50°C)

Discharge..... -40°F (-40°C) to 140°F (60°C)

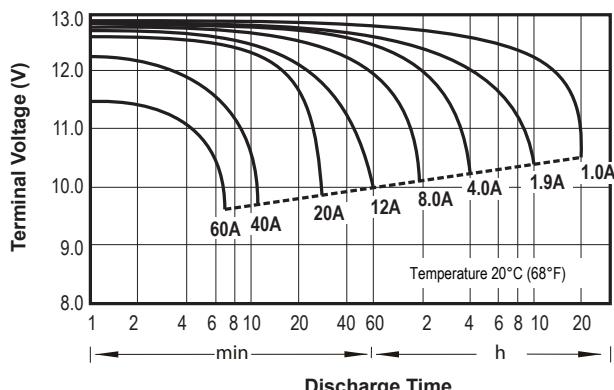
**Case** ..... ABS Plastic

**Power-Sonic Chargers** .... PSC-122000A, 124000A, 122000A-C, 124000A-C

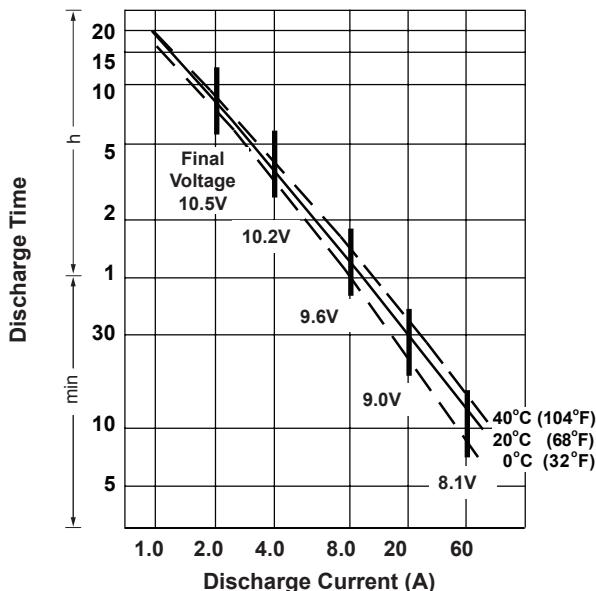
## Shelf Life &amp; Storage



## Discharge Characteristics



## Discharge Time vs. Discharge Current



## Charging

**Cycle Applications:** Limit initial current to 6.0A. Charge until battery voltage (under charge) reaches 14.4 to 14.7 volts at 68°F (20°C). Hold at 14.4 to 14.7 volts until current drops to under 200mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

**"Float" or "Stand-By" Service:** Hold battery across constant voltage source of 13.5 to 13.8 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 within 6 months of storage, otherwise permanent loss of capacity might occur as a result of sulfation.

## Chargers

Power-Sonic offers a wide range of chargers suitable for batteries up to 100AH. Please refer to the Charger Selection Guide in our specification sheets for "C-Series Switch Mode Chargers" and "Transformer Type A and F Series". Please contact our Technical department for advice if you have difficulty in locating suitable models.

## Contact Information

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## Further Information

Please refer to our website [www.power-sonic.com](http://www.power-sonic.com) for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc..

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