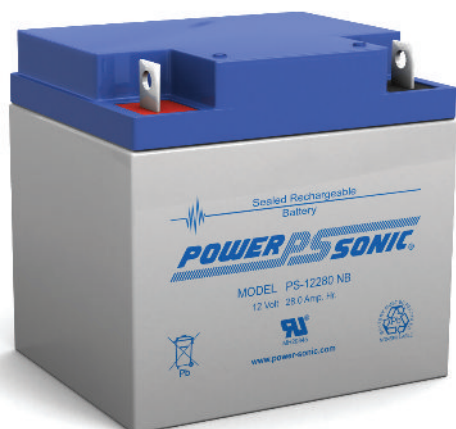


## PS-12280 12 Volt 28.0 AH

### Rechargeable Sealed Lead Acid Battery

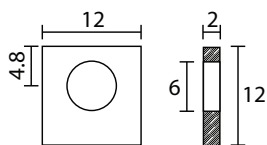


**We've Got The Power.™**

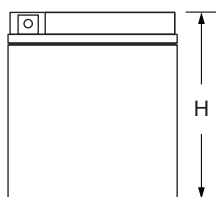
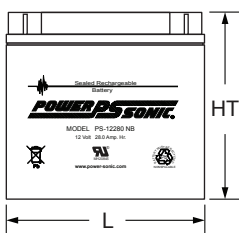
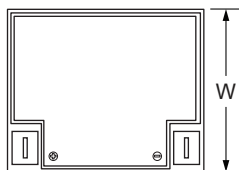


#### Terminals (mm)

- NB1: Tin plated brass post with 'Nut & Bolt' fasteners



#### Physical Dimensions: in (mm)



**L: 6.50 (165) W: 4.92 (125) H: 6.97 (177) HT: 6.97 (177)**

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. (1.4A to 10.50 volts) .....	28.0 AH
10-hr. (2.62A to 10.50 volts) .....	26.2 AH
5-hr. (5A to 10.20 volts) .....	25.0 AH
1-hr. (18.6A to 9.00 volts) .....	18.6 AH
15-min. (58.8A to 9.00 volts) .....	14.7 AH

Approximate Weight ..... 20.70 lbs. (9.39 kg)

Energy Density (20-hr. rate) ..... 1.51 W-h/in<sup>3</sup> (91.99 W-h/l)

Specific Energy (20-hr. rate) ..... 16.23 W-h/lb (35.79 W-h/kg)

Internal Resistance (approx.) ..... 10 milliohms

Max Discharge Current (7 Min.) ..... 84.0 amperes

Max Short-Duration Discharge Current (10 Sec.) ..... 280.0 amperes

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

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

#### Operating Temperature Range

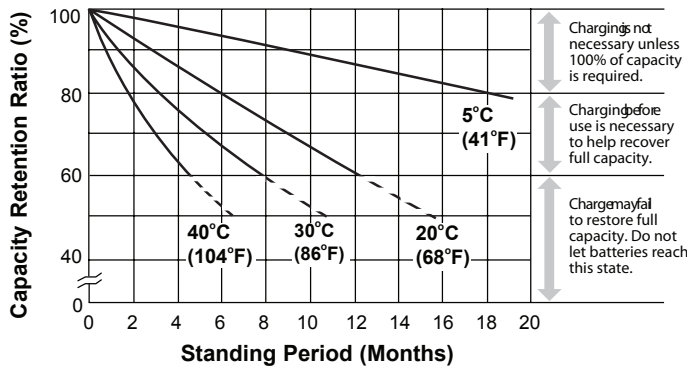
Charge.. ..... -4°F (-20°C) to 122°F (50°C)

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

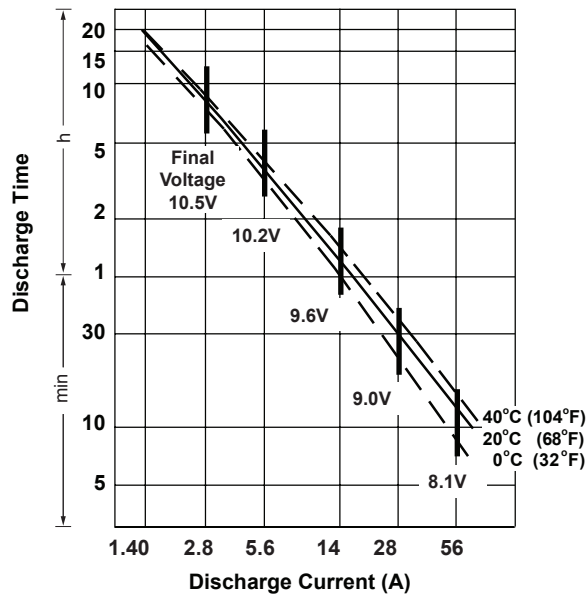
Case ..... ABS Plastic

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

## Shelf Life & Storage



## Discharge Time vs. Discharge Current



## Charging

**Cycle Applications:** Limit initial current to 8.4A. 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 280mA. 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

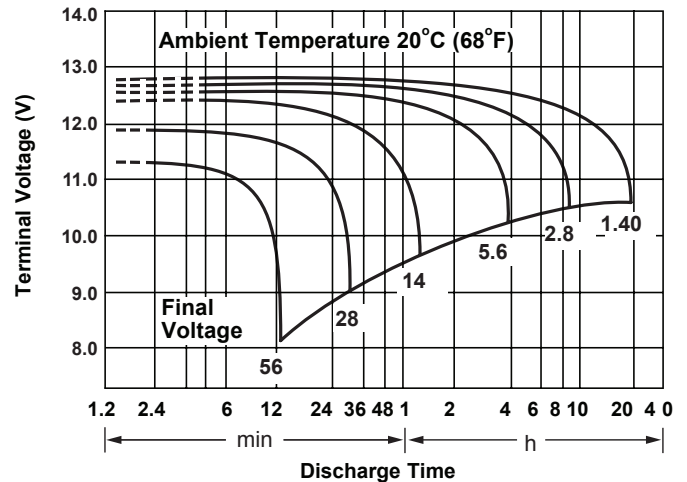
Power-Sonic offers a wide range of chargers suitable for batteries up to 100AH. Please refer to the Charger Selection Guide in our specification sheets for "C-Series Switch Mode Chargers" and "Transformer Type A and F Series". Please contact our Technical department for advice if you have difficulty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

## Contact Information

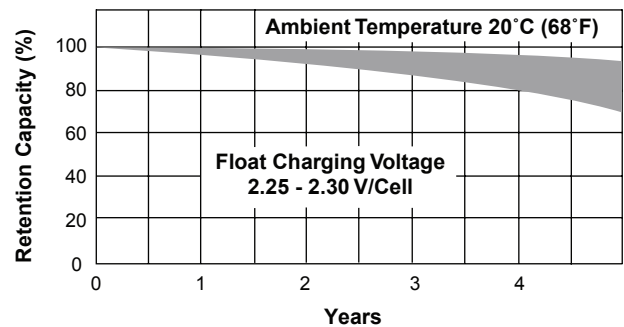
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**MICROBATTERY.COM**, 7350 NW 35th Terrace, Miami, Florida 33122  
Customer Service: 1-866-999-2355 | Phone: 1-305-371-9200 | Fax: 1-305-371-9400  
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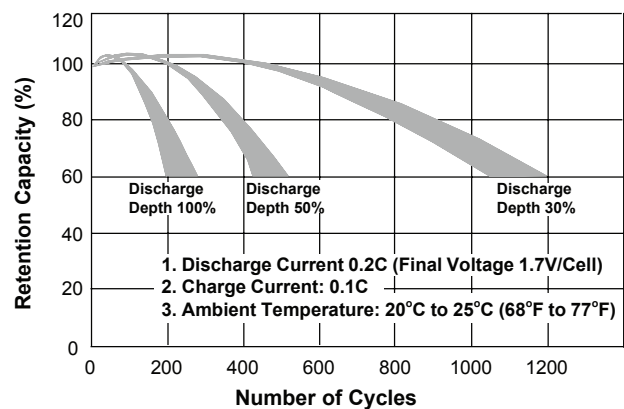
## Discharge Characteristics



## Life Characteristics in Stand-By Use



## Life Characteristics in Cyclic Use



## 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..