



# PS-12400 12 Volt 40.0 AH

## Rechargeable Sealed Lead Acid Battery



**We've Got The Power.™**



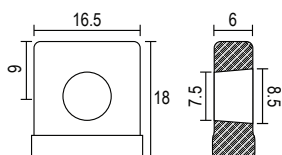
### Features

- 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

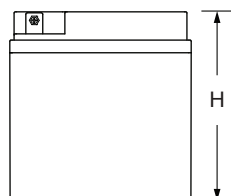
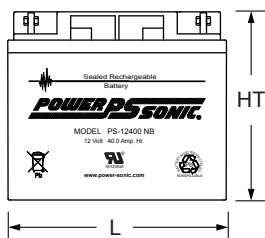
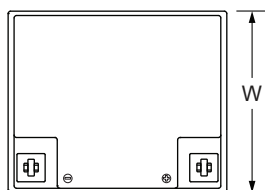
### Terminals

(mm)

- NB4: Heavy duty terminal posts with nut and bolt fasteners



### Physical Dimensions: in (mm)



**L: 7.76 (197) W: 6.50 (165) H: 6.69 (170) HT: 6.69 (170)**

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

### Performance Specifications

**Nominal Voltage** ..... 12 volts (6 cells)

#### Nominal Capacity

|                                     |         |
|-------------------------------------|---------|
| 20-hr. (2A to 10.50 volts) .....    | 40.0 AH |
| 10-hr. (3.8A to 10.50 volts) .....  | 38.0 AH |
| 5-hr. (6.7A to 10.20 volts) .....   | 33.5 AH |
| 1-hr. (24A to 9.00 volts) .....     | 24.0 AH |
| 15-min. (74.1A to 9.00 volts) ..... | 18.5 AH |

**Approximate Weight** ..... 29.10 lbs. (13.20 kg)

**Energy Density** (20-hr. rate) ..... 1.42 W-h/in<sup>3</sup> (86.80 W-h/l)

**Specific Energy** (20-hr. rate) ..... 16.49 W-h/lb (36.36 W-h/kg)

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

**Max Discharge Current** (7 Min.) ..... 120.0 amperes

**Max Short-Duration Discharge Current** (10 Sec.)..... 380.0 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)

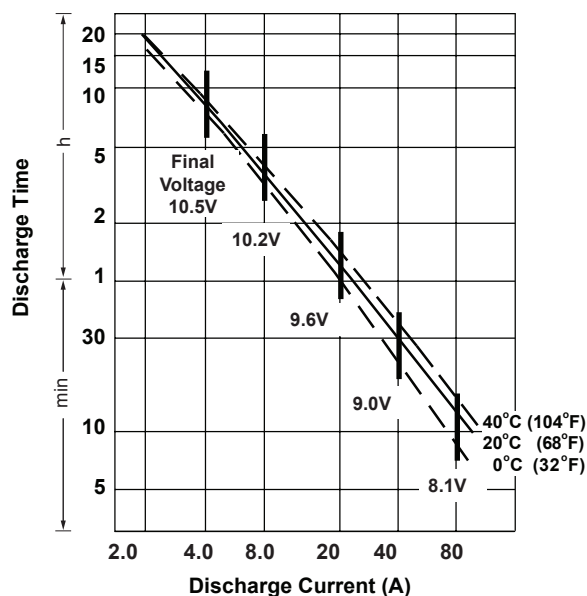
**Case** ..... ABS Plastic

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

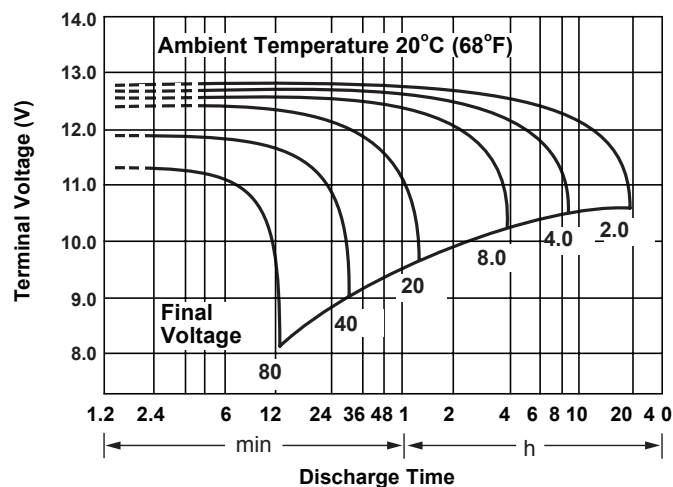
### Constant Power Discharge Ratings

| MODEL           | FINAL VOLTAGE | WATTS PER CELL @ 25° C |        |        |        |        |        |        |
|-----------------|---------------|------------------------|--------|--------|--------|--------|--------|--------|
|                 |               | 5 MIN                  | 10 MIN | 15 MIN | 20 MIN | 30 MIN | 45 MIN | 60 MIN |
| <b>PS-12400</b> | 1.75          | 270                    | 183    | 140    | 115    | 86     | 64     | 49     |
|                 | 1.70          | 278                    | 187    | 143    | 116    | 87     | 65     | 50     |
|                 | 1.67          | 280                    | 189    | 145    | 118    | 88     | 66     | 52     |

### Discharge Time vs. Discharge Current



### Discharge Characteristics



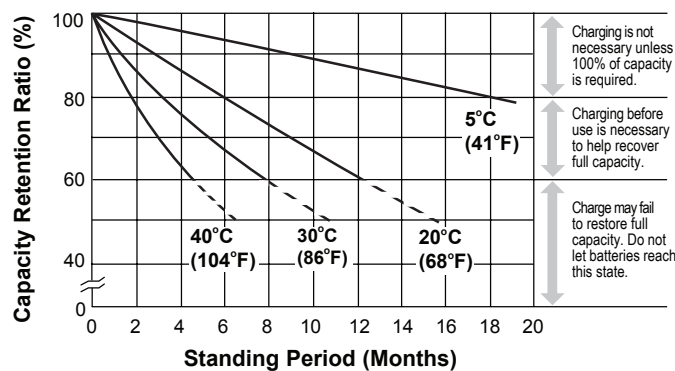
### Charging

**Cycle Applications:** Limit initial current to 12A. 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 400mA. 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.

### Shelf Life & Storage



### 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.

### 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..

### Contact Information

#### DOMESTIC SALES

Tel: +1-619-661-2020  
Fax: +1-619-661-3650  
[national-sales@power-sonic.com](mailto:national-sales@power-sonic.com)

#### CUSTOMER SERVICE

Tel: +1-619-661-2030  
Fax: +1-619-661-3648  
[customer-service@power-sonic.com](mailto:customer-service@power-sonic.com)

#### TECHNICAL SUPPORT

Tel: +1-619-661-2020  
Fax: +1-619-661-3648  
[support@power-sonic.com](mailto:support@power-sonic.com)

#### INTERNATIONAL SALES

Tel: +1-650-364-5001  
Fax: +1-650-366-3662  
[international-sales@power-sonic.com](mailto:international-sales@power-sonic.com)