

## PS-12400 12 Volt 40.0 AH

### Rechargeable Sealed Lead Acid Battery



We've Got The Power.™



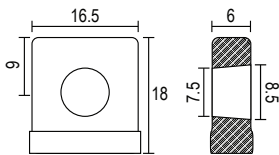
### Features

- 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

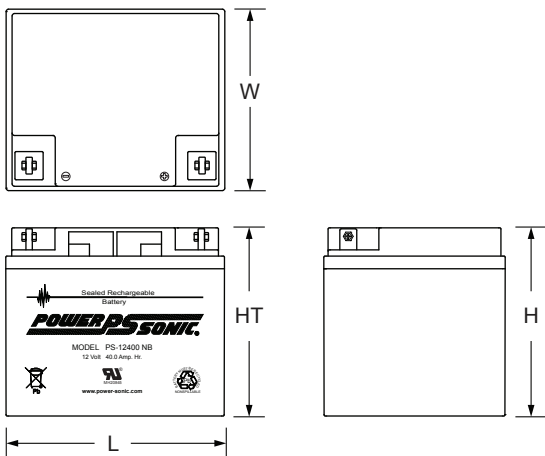
### Terminals

(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)

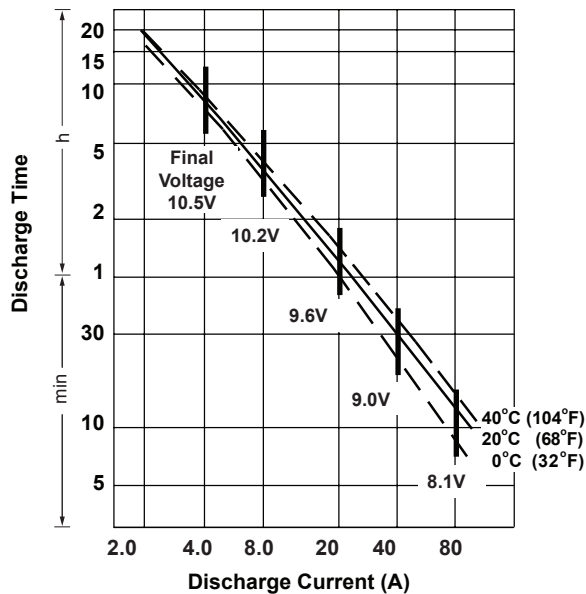
**Case** ..... ABS Plastic

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

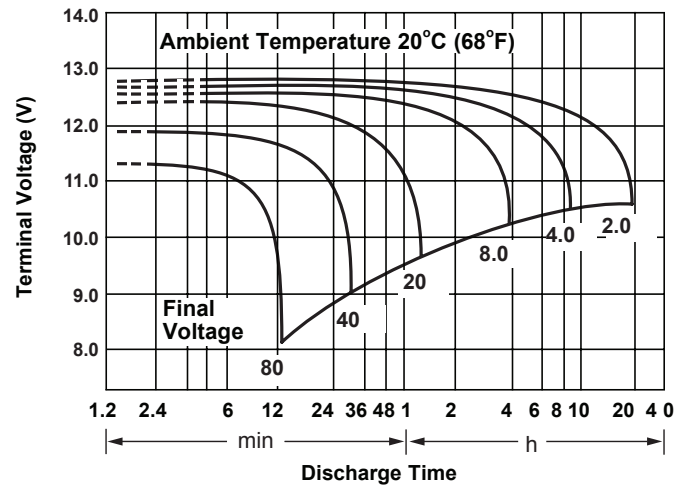
**Constant Power Discharge Ratings**

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**



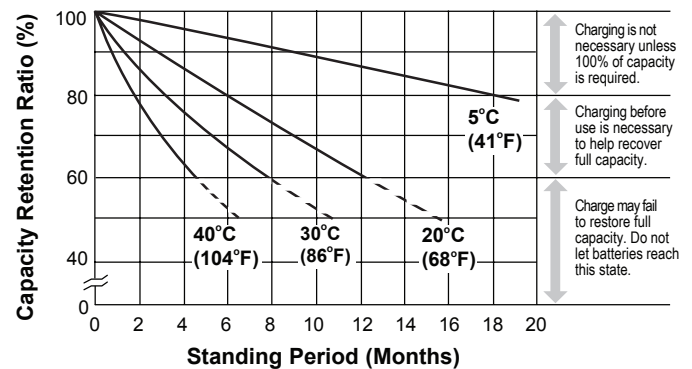
**Charging**

**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**

[www.power-sonic.com](http://www.power-sonic.com)

**DOMESTIC SALES**

Tel: +1-619-661-2020  
 Fax: +1-619-661-3650  
 national-sales@power-sonic.com

**CUSTOMER SERVICE**

Tel: +1-619-661-2030  
 Fax: +1-619-661-3648  
 customer-service@power-sonic.com

**TECHNICAL SUPPORT**

Tel: +1-619-661-2020  
 Fax: +1-619-661-3648  
 support@power-sonic.com

**INTERNATIONAL SALES**

Tel: +1-650-364-5001  
 Fax: +1-650-366-3662  
 battery@power-sonic.com