



## PS-12400 12 Volt 40.0 AH

### Rechargeable Sealed Lead Acid Battery



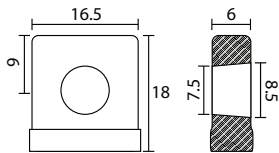
#### Features

- 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

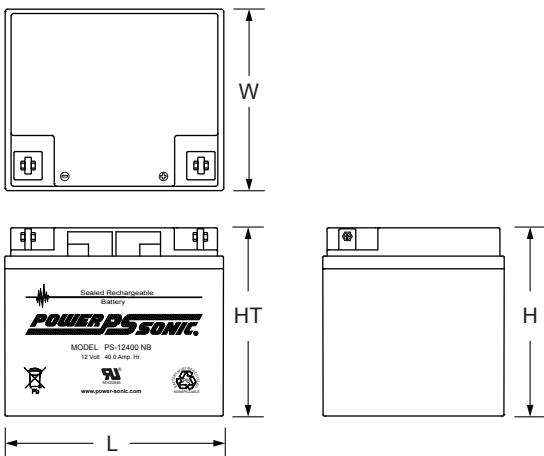
#### Terminals

(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.

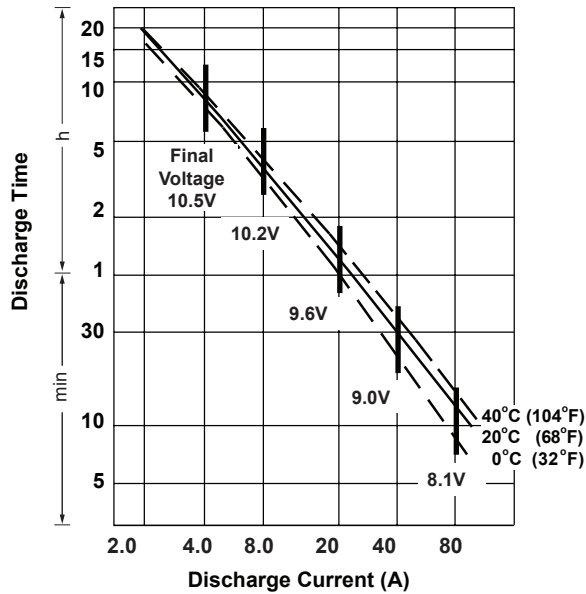
#### Performance Specifications

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

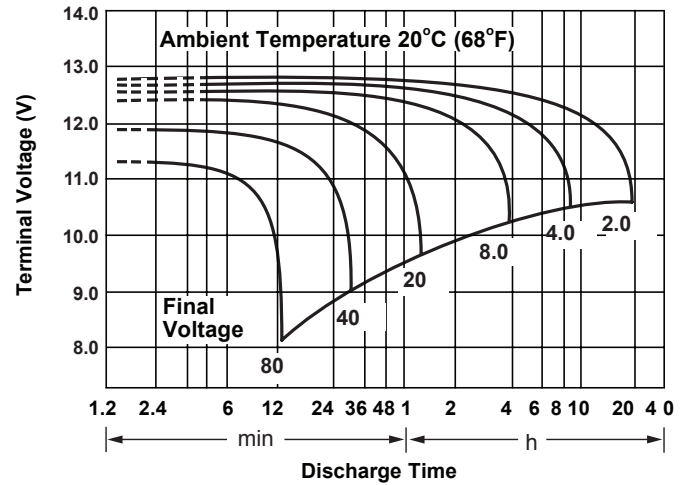
Constant Power Discharge Ratings

MODEL	FINAL VOLTAGE	WATTS PER CELL @ 25° C						
		5 MIN	10 MIN	15 MIN	20 MIN	30 MIN	45 MIN	60 MIN
PS-12400	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



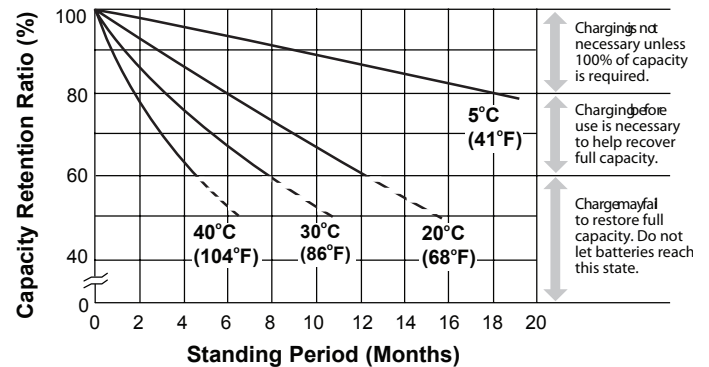
Charging

**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

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