



## NEPS12400 12 Volt 40.0 AH

Rechargeable Sealed Lead Acid Battery



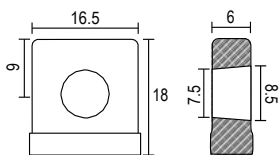
### Features

- 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

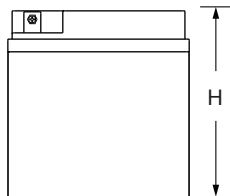
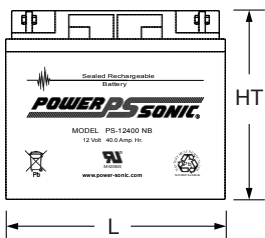
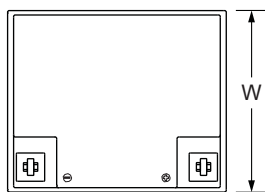
### Terminals

(mm)

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



### Physical Dimensions: in (mm)



L: 197 W: 165 H: 170 HT: 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** ..... 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 20 °C)

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

#### Operating Temperature Range

Charge.. .....	-20 °C to 50 °C
Discharge.....	-40 °C to 60 °C

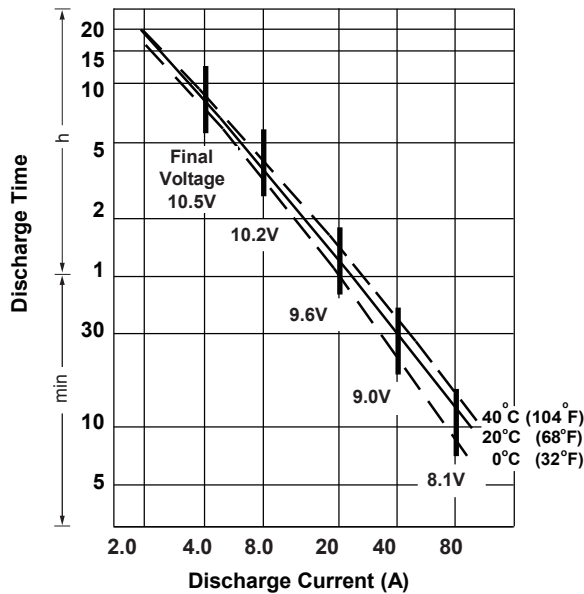
**Case** ..... ABS Plastic

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

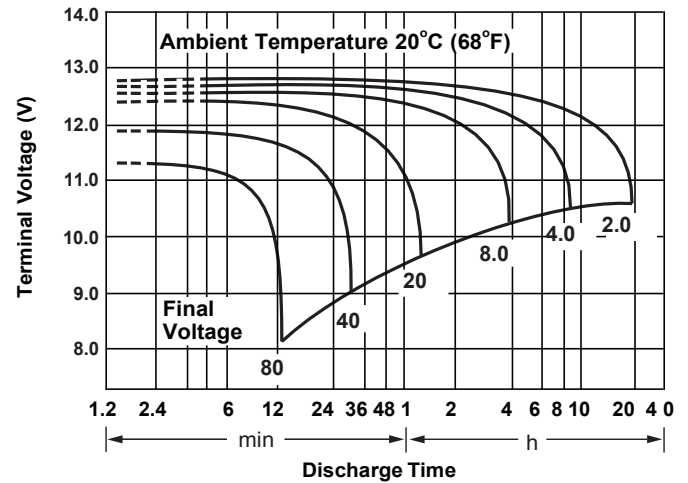
**Constant Power Discharge Ratings**

MODEL	FINAL VOLTAGE	WATTS PER CELL @ 25° C						
		5 MIN	10 MIN	15 MIN	20 MIN	30 MIN	45 MIN	60 MIN
NEPS12400	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**



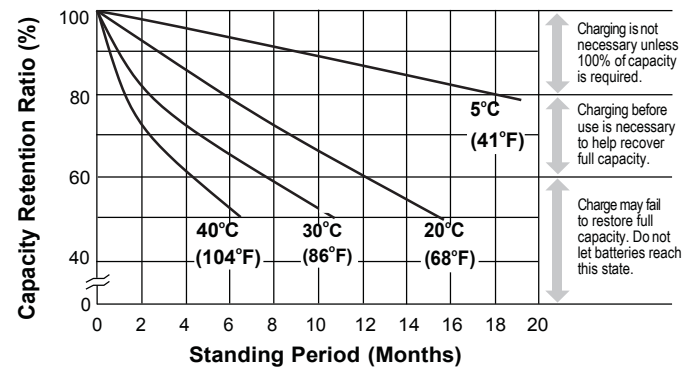
**Charging**

**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**



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