

PS-12400FR 12 Volt 40.0 AH Rechargeable Sealed Lead Acid Battery



We've Got The Power.™



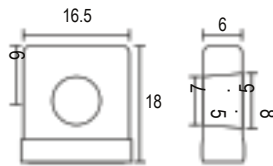
Features

- 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 & Flame Resistant ABS case & 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)

- T12: Threaded insert with 5mm stud fastener



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/in³ (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

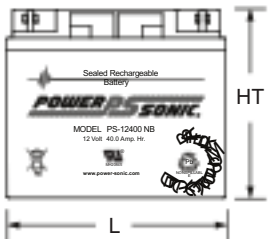
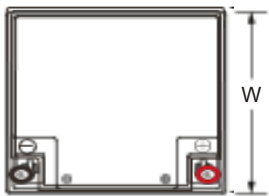
Charge.. -4 °F (-20 °C) to 122 °F (50 °C)

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

Case ABS Plastic

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

Physical Dimensions: in (mm)



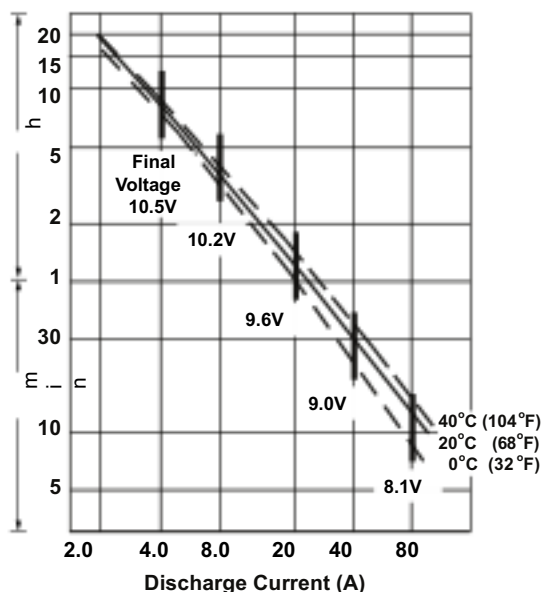
L: 7.76 (197) W: 6.50 (165) H: 6.69 (170) HT: 6.69 (170)

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

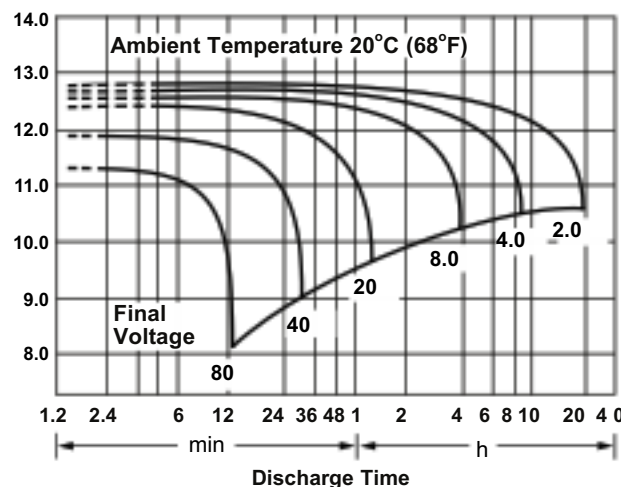
Constant Power Discharge Ratings

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



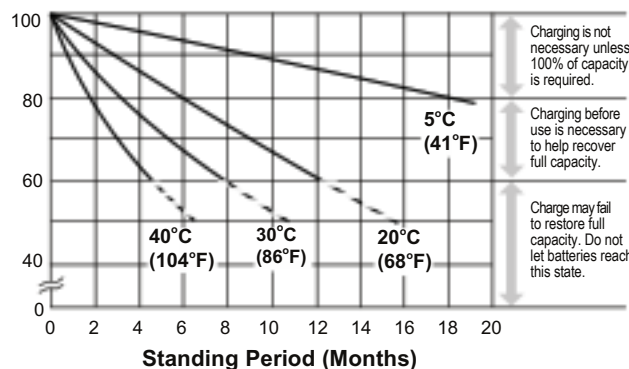
Charging

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 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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