

## PS-121400FR 12 Volt 140.0 AH

Rechargeable Sealed Lead Acid Battery

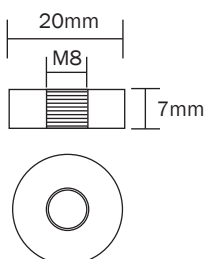
We've Got The Power.™



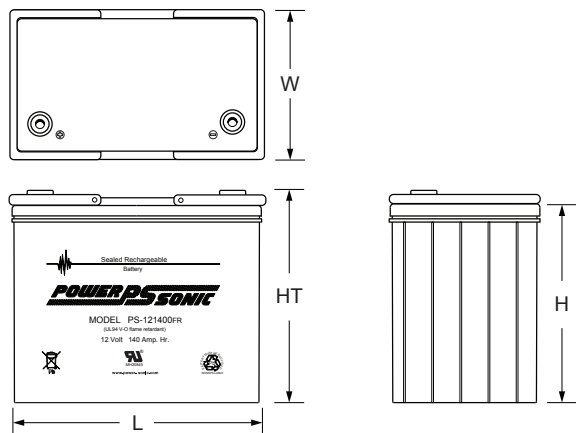
### Terminals

(mm)

- T11 - THREADED INSERT - 8mm STUD



### Physical Dimensions: in (mm)



L: 13.50 (343) W: 6.73 (171) H: 10.80 (274) HT: 11.15 (283)

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

### 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 flame retardant ABS case and cover (UL94 V-0)
- Integrated ABS carrying handles for ease of movement
- 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

### Performance Specifications

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

#### Nominal Capacity

|                                     |          |
|-------------------------------------|----------|
| 20-hr. (7A to 10.50 volts) .....    | 140.0 AH |
| 10-hr. (13.5A to 10.50 volts) ..... | 135.0 AH |
| 5-hr. (24A to 10.20 volts) .....    | 120.0 AH |
| 1-hr. (84A to 9.00 volts) .....     | 84.0 AH  |
| 15-min. (260A to 9.00 volts) .....  | 65.0 AH  |

**Approximate Weight** ..... 99.00 lbs. (44.91 kg)

**Energy Density** (20-hr. rate) ..... 1.71 W-h/in<sup>3</sup> (104.48 W-h/l)

**Specific Energy** (20-hr. rate) ..... 16.97 W-h/lb (37.41 W-h/kg)

**Internal Resistance** (approx.) ..... 3 milliohms

**Max Discharge Current** (7 Min.) ..... 420.0 amperes

**Max Short-Duration Discharge Current** (10 Sec.)..... 950.0 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)

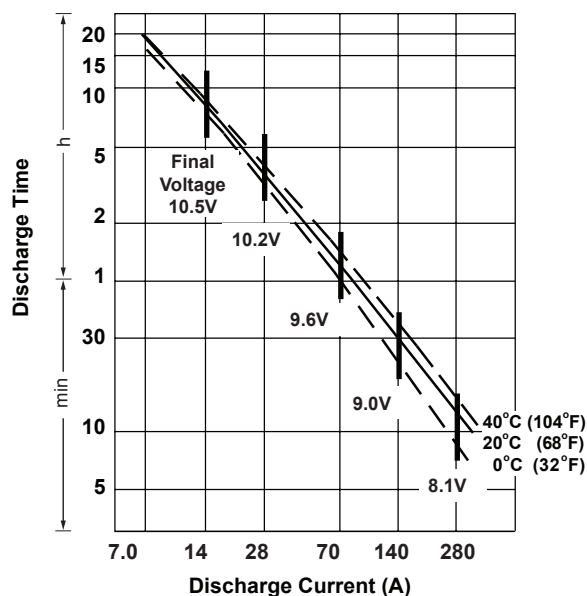
**Case** ..... ABS Plastic (UL94 V-0 flame retardant)

**Power-Sonic Chargers** ..... n/a

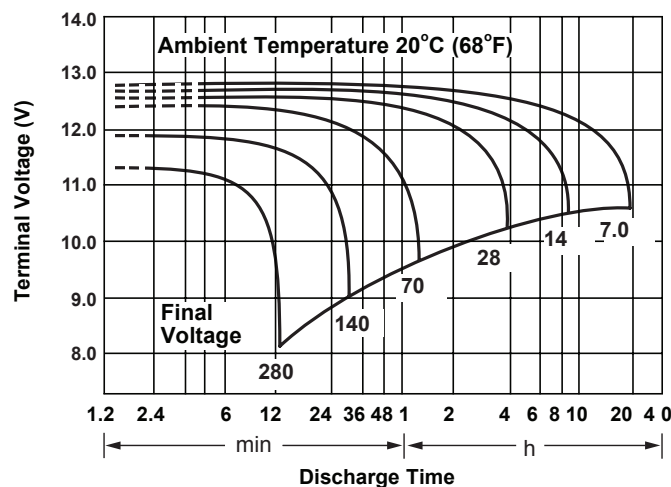
### Constant Power Discharge Ratings

| MODEL              | FINAL VOLTAGE | WATTS PER CELL @ 25° C |        |        |        |        |        |        |
|--------------------|---------------|------------------------|--------|--------|--------|--------|--------|--------|
|                    |               | 5 MIN                  | 10 MIN | 15 MIN | 20 MIN | 30 MIN | 45 MIN | 60 MIN |
| <b>PS-121400FR</b> | 1.75          | 680                    | 510    | 432    | 366    | 302    | 220    | 176    |
|                    | 1.70          | 720                    | 550    | 462    | 376    | 304    | 225    | 180    |
|                    | 1.67          | 740                    | 560    | 480    | 381    | 306    | 228    | 182    |

### Discharge Time vs. Discharge Current



### Discharge Characteristics



### Charging

**Cycle Applications:** Limit initial current to 20A. 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 1.4A. Battery is fully charged under these conditions, and charger should be disconnected or switched to “float” voltage.

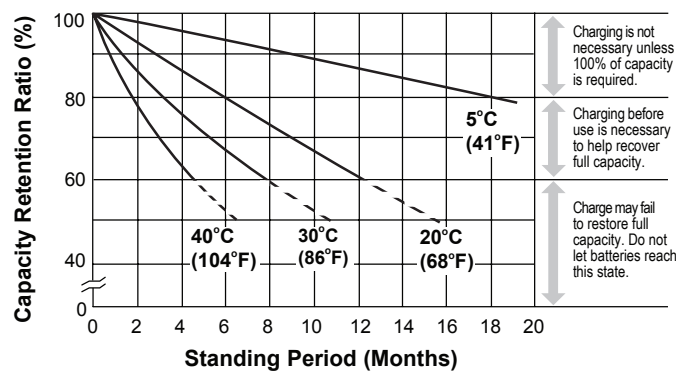
**“Float” or “Stand-By” Service:** Hold battery across constant voltage source of 13.5 to 13.8 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

**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.

### 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.

### Shelf Life & Storage



### 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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- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Подбор аналогов;
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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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