

**PG-12V92 FR**      **12 Volt 98 AH @ 20-hr. rate**  
**92 AH @ 10-hr. rate**

**Rechargeable Sealed Lead Acid Battery**  
**Designed for Cyclic, Standby, and Solar Applications**

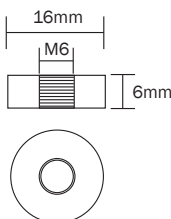


**We've Got The Power.™**

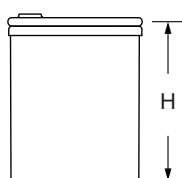
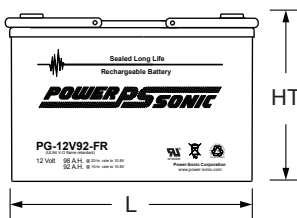
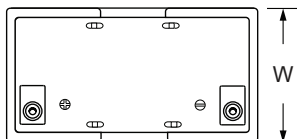


## Terminals (mm)

- T6: Threaded insert w. 6 mm stud fastener



## Physical Dimensions: in (mm)



**L: 12.05 (306) W: 6.61 (168) H: 8.27 (210) HT: 8.51 (216)**

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

## Features

- **Long Service Life** - Thick plate design and efficient gas recombination yield a service life expectancy of up to 10 years in standby mode.
- **Low Internal Resistance** - Superb high-rate discharge characteristics ensure reliable performance in UPS and Telecom applications.
- **Maintenance-Free, Non-Spillable** - Proven VRLA technology guarantees safe operation without maintenance and 'non-restricted article' status for transportation.
- **Handles** - Integral carrying handles.
- **Low Self-Discharge** - Lead-calcium alloy grids and use of high purity lead account for superior shelf-life characteristics permitting storage for extended periods of time.
- **Designed-In Reliability** - Cutting-edge manufacturing and process control combined with meticulous quality assurance procedures guarantee consistent and dependable performance.

## Performance Specifications

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

### Nominal Capacity

|        |                         |         |
|--------|-------------------------|---------|
| 20-hr. | (4.90A to 10.80 volts)  | 98.0 AH |
| 10-hr. | (9.2A to 10.80 volts)   | 92.0 AH |
| 8-hr.  | (11A to 10.50 volts)    | 88.0 AH |
| 5-hr.  | (15.80A to 10.50 volts) | 79.0 AH |
| 3-hr.  | (23.90A to 10.50 volts) | 71.7 AH |
| 1-hr.  | (55.2A to 9.60 volts)   | 55.2 AH |

**Approximate Weight** ..... 61.0 lbs. (27.7 kg)

**Energy Density** (10-hr. rate) ..... 1.68 W-h/in<sup>3</sup> (102.28 W-h/l)

**Specific Energy** (10-hr. rate) ..... 18.10 W-h/lb (39.90 W-h/kg)

**Internal Resistance** (approx.) ..... 5.0 milliohms

**Max Short-Duration Discharge Current** (10 Sec.)..... 552 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) |

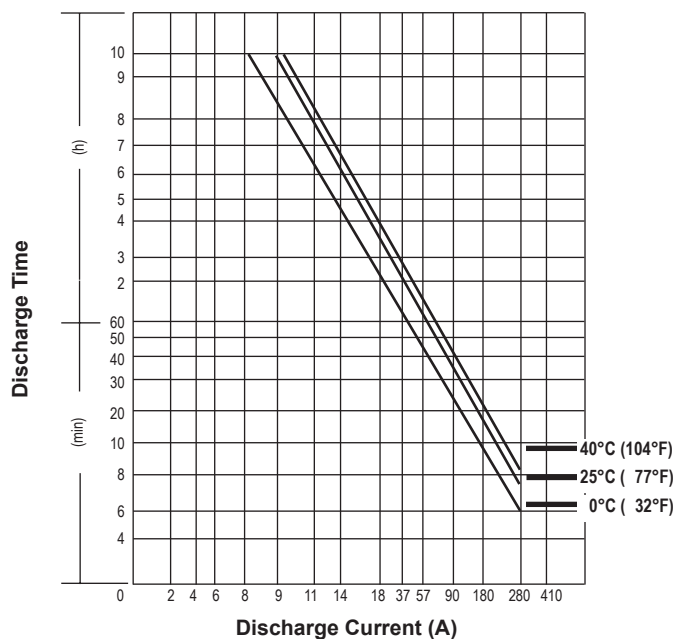
**Case** ..... ABS Plastic (UL94 V-0 flame retardant)

**Power-Sonic Chargers** .....PSC-1210000A-C

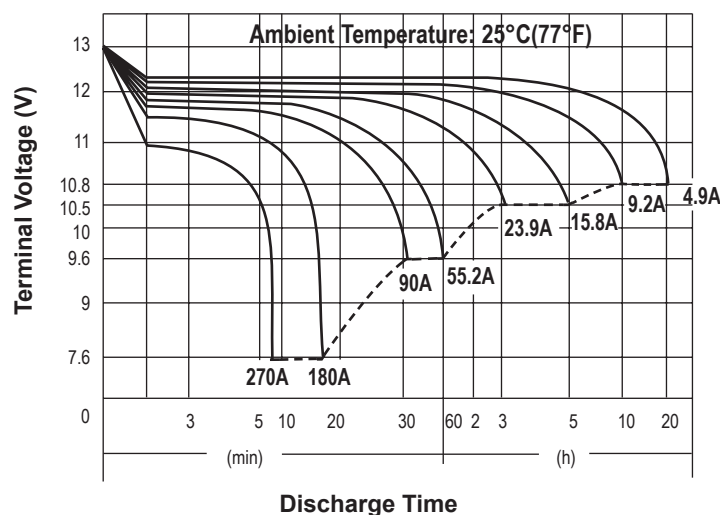
### Constant Current & Power Discharge Ratings

| MODEL              | FINAL VOLTAGE | AMPS/WATTS PER CELL @ 25° C |     |        |     |        |     |        |     |        |     |        |     |        |     |
|--------------------|---------------|-----------------------------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|
|                    |               | 5 MIN                       |     | 10 MIN |     | 15 MIN |     | 20 MIN |     | 30 MIN |     | 45 MIN |     | 60 MIN |     |
|                    |               | A                           | W   | A      | W   | A      | W   | A      | W   | A      | W   | A      | W   | A      | W   |
| <b>PG-12V92 FR</b> | 1.80          | 174                         | 538 | 149    | 386 | 129    | 305 | 114    | 255 | 93     | 185 | 67     | 136 | 54     | 104 |
|                    | 1.75          | 199                         | 552 | 215    | 405 | 141    | 312 | 125    | 264 | 99     | 198 | 73     | 146 | 54.5   | 108 |
|                    | 1.67          | 228                         | 588 | 186    | 423 | 162.5  | 330 | 136.8  | 276 | 105    | 206 | 72.5   | 150 | 55.2   | 112 |
|                    | 1.60          | 282                         | 626 | 205    | 435 | 168    | 337 | 138    | 280 | 105.8  | 210 | 73.6   | 153 | 54.6   | 115 |

### Discharge Time vs. Discharge Current



### Discharge Characteristics



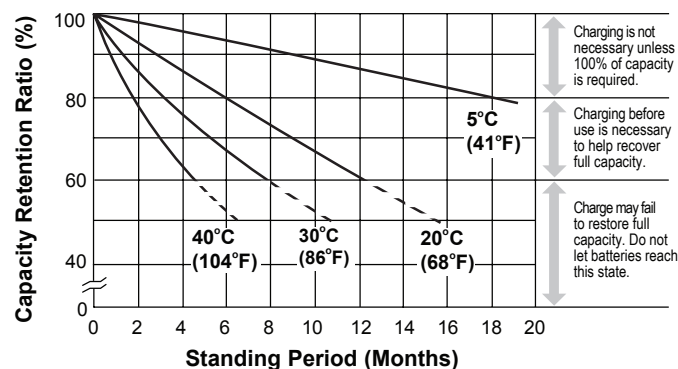
### Charging

**Cycle Applications:** Limit initial current to 25.0A. 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 920mA. 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..

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