



**PG-12V55 FR**      **12 Volt 60 AH @ 20-hr. rate**  
**56 AH @ 10-hr. rate**

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

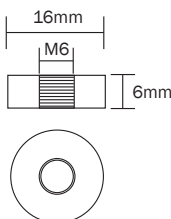


**We've Got The Power.™**

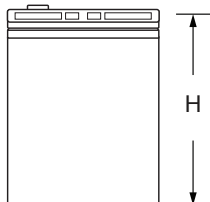
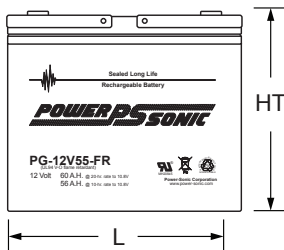
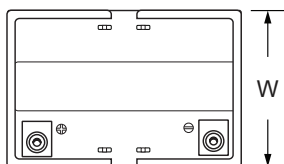


## Terminals (mm)

- T6: Threaded insert w. 6 mm stud fastener



## Physical Dimensions: in (mm)



**L: 9.04 (230) W: 5.45 (138) H: 8.15 (207) HT: 8.43 (214)**

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. | (3.00A to 10.80 volts)  | 60.0 AH |
| 10-hr. | (5.6A to 10.80 volts)   | 56.0 AH |
| 8-hr.  | (6.7A to 10.50 volts)   | 53.6 AH |
| 5-hr.  | (9.50A to 10.50 volts)  | 47.5 AH |
| 3-hr.  | (14.30A to 10.50 volts) | 42.9 AH |
| 1-hr.  | (33.0A to 9.60 volts)   | 33.0 AH |

**Approximate Weight** ..... 36.0 lbs. (16.3 kg)

**Energy Density** (10-hr. rate) ..... 1.64 W-h/in<sup>3</sup> (100.30 W-h/l)

**Specific Energy** (10-hr. rate) ..... 18.33 W-h/lb (40.42 W-h/kg)

**Internal Resistance** (approx.) ..... 8.0 milliohms

**Max Short-Duration Discharge Current** (10 Sec.)..... 330 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)

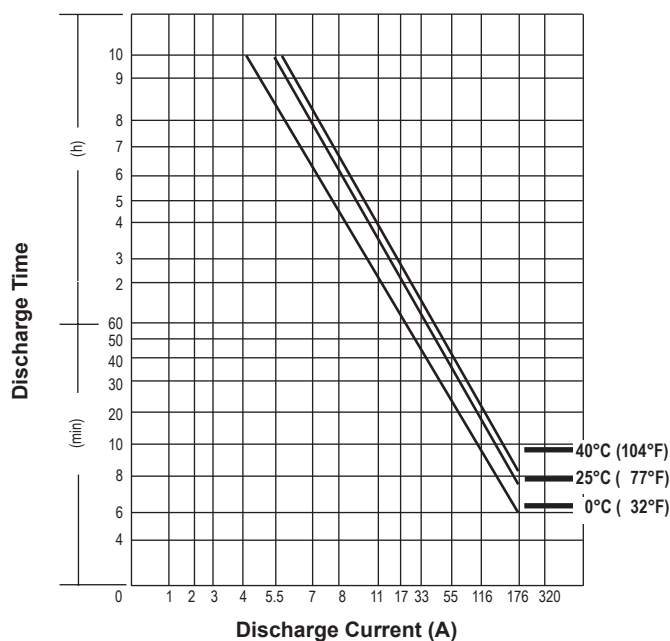
**Case** ..... ABS Plastic (UL94 V-0 flame retardant)

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

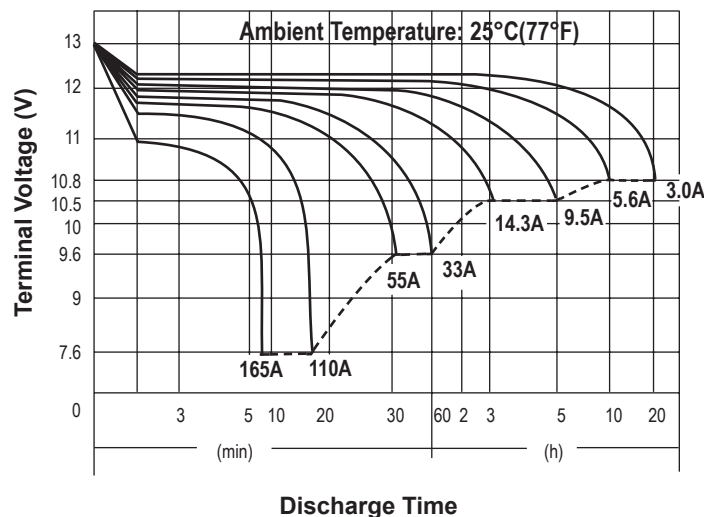
### Constant Current & Power Discharge Ratings

| 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-12V55 FR</b> | 1.80          | 106                         | 308 | 91     | 200 | 78.8   | 173 | 70     | 146 | 56.5   | 110 | 41     | 83 | 33     | 70 |
|                    | 1.75          | 121                         | 320 | 99     | 210 | 86     | 184 | 76.5   | 153 | 60     | 115 | 44.5   | 87 | 33.2   | 72 |
|                    | 1.67          | 139                         | 354 | 113.6  | 247 | 99.3   | 202 | 83.6   | 160 | 64.2   | 120 | 44.3   | 90 | 33     | 74 |
|                    | 1.60          | 112.2                       | 372 | 119    | 260 | 103    | 206 | 84     | 168 | 63.3   | 127 | 44     | 94 | 32.7   | 76 |

### Discharge Time vs. Discharge Current



### Discharge Characteristics



### Charging

**Cycle Applications:** Limit initial current to 16.5A. 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 550mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to “float” voltage.

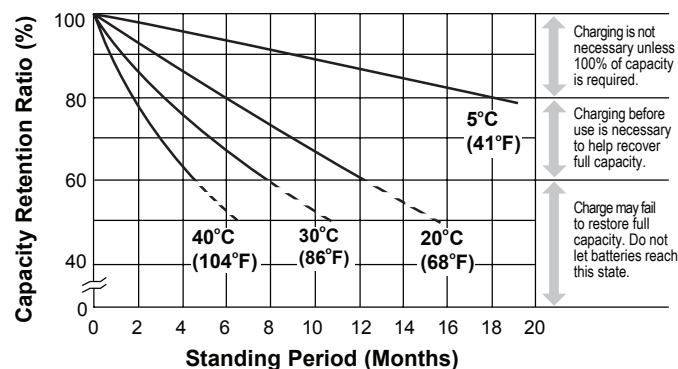
**“Float” or “Stand-By” Service:** Hold battery across constant voltage source of 13.5 to 13.8 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

**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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