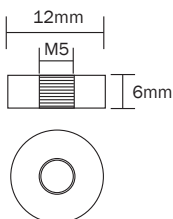




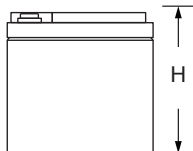
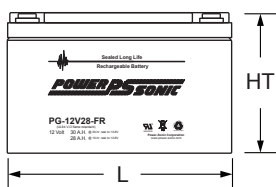
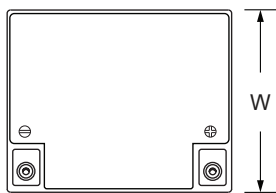
#### Terminals

(mm)

- T12: Threaded insert w. 5 mm stud fastener



#### Physical Dimensions: in (mm)



**L: 6.56 (167) W: 6.96 (177) H: 4.92 (125) HT: 4.92 (125)**

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.
- **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. | (1.50A to 10.80 volts) | 30.0 AH |
| 10-hr. | (2.8A to 10.80 volts)  | 28.0 AH |
| 8-hr.  | (3.35A to 10.50 volts) | 26.8 AH |
| 5-hr.  | (5.10A to 10.50 volts) | 25.5 AH |
| 1-hr.  | (18.6A to 9.60 volts)  | 18.6 AH |

**Approximate Weight** ..... 18.5 lbs. (8.4 kg)

**Energy Density** (10-hr. rate) ..... 1.50 W-h/in<sup>3</sup> (91.28 W-h/l)

**Specific Energy** (10-hr. rate) ..... 18.16 W-h/lb (40.04 W-h/kg)

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

**Max Short-Duration Discharge Current** (10 Sec.) ..... 168 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) |

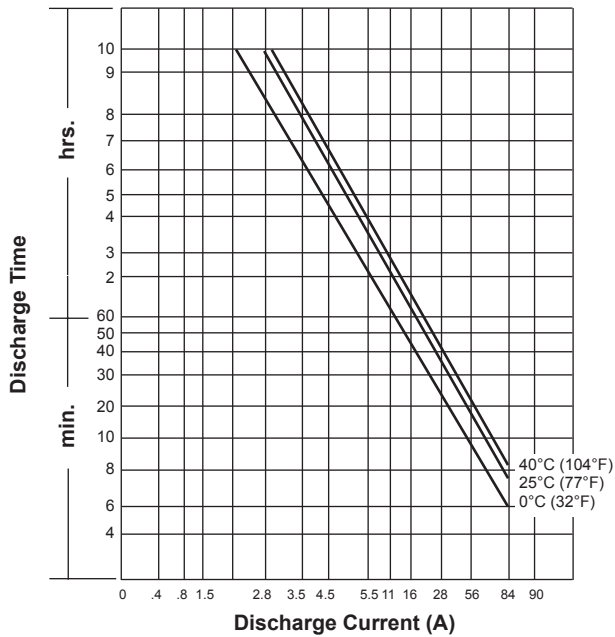
**Case** ..... ABS Plastic (UL94 V-0 flame retardant)

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

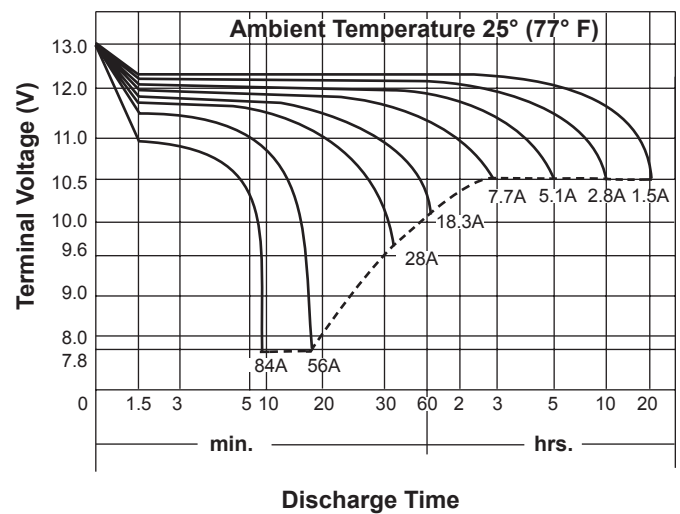
### Constant Current & Power Discharge Ratings

| 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-12V28 FR</b> | 1.80          | 82                          | 170 | 60     | 118 | 43     | 92  | 37     | 74 | 28     | 51 | 19     | 38 | 17     | 32  |
|                    | 1.75          | 96                          | 178 | 68     | 126 | 47     | 96  | 40     | 77 | 30     | 56 | 21     | 41 | 18     | 34  |
|                    | 1.67          | 106                         | 186 | 75     | 130 | 52     | 100 | 43     | 80 | 32     | 60 | 22     | 43 | 19     | 35  |
|                    | 1.60          | 115                         | 212 | 80     | 159 | 56     | 110 | 46     | 92 | 34     | 68 | 24     | 48 | 20     | n/a |

**Discharge Time vs. Discharge Current**



**Discharge Characteristics**



### Charging

**Cycle Applications:** Limit initial current to 8.4A. 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 280mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to “float” voltage.

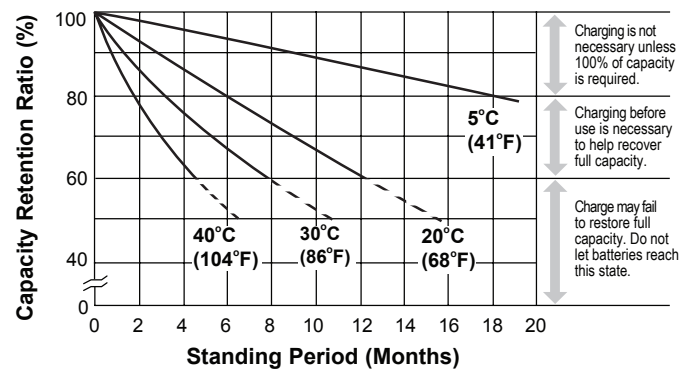
**“Float” or “Stand-By” Service:** Hold battery across constant voltage source of 13.5 to 13.8 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

**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..

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