

**PG12V75T-FR**

12 Volt 75 A.H.



UPS / TELECOM BATTERY

**FEATURES****Long Service Life**

Thick plate design and efficient gas recombination yield a service life expectancy of 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**

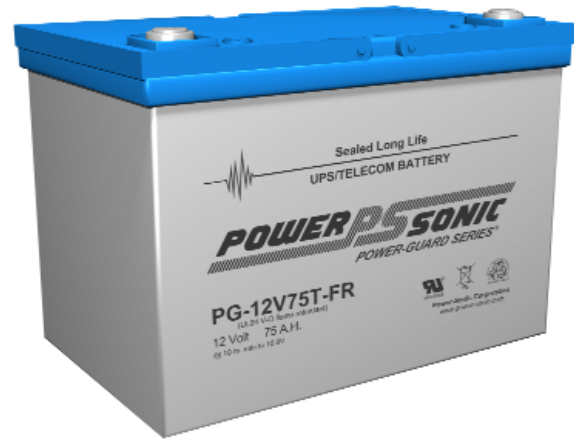
Proven VRLA technology guarantees safe operation without maintenance and 'non-restricted article' status for transportation.

**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.

**PRODUCT**

CE  ISO9001  
MH20845

**SPECIFICATIONS**

|  |   |
|--|---|
| <b>Nominal Voltage</b>                                       | 12 Volt (6 cells)                         |
| <b>Nominal Capacity</b>                                      |   |
| 20-hr. rate (4.0A to 10.8V)                                  | 80.0AH                                    |
| 10-hr. rate (7.5A to 10.8V)                                  | 75.0AH                                    |
| 8-hr. rate (9.0A to 10.5V)                                   | 72.0AH                                    |
| 5-hr. rate (12.9A to 10.5V)                                  | 64.5AH                                    |
| 3-hr. rate (19.5A to 10.5V)                                  | 58.5AH                                    |
| 1-hr. rate (45.0A to 9.6V)                                   | 45.0AH                                    |
| <b>Approximate Weight</b>                                    | 55.2 lbs. (25.0 kg)                       |
| <b>Energy Density (10-hr. rate)</b>                          | 1.42 W-hrs/in <sup>3</sup> (87.0 W-hrs/l) |
| <b>Specific Energy (10-hr. rate)</b>                         | 16.3 W-hrs/lb (36.0 W-hrs/kg)             |
| <b>Internal Resistance</b>                                   | 6 milliohms                               |
| <b>30-sec. Discharge Current to 1.60V/cell</b>               | 450 A                                     |
| <b>Terminals</b>   | T6: threaded insert w. 6 mm stud fastener |
| <b>Shelf Life — (% of nominal capacity at 68° F (20° C))</b> |   |
| 1 Month  | 97%                                       |
| 3 Months   | 91%                                       |
| 6 Months   | 83%                                       |
| <b>Operating Temperature Range</b>                           |   |
| Charge   | -4°F (-20°C) to 122°F (50°C)              |
| Discharge  | -4°F (-20°C) to 140°F (60°C)              |
| <b>Case Material (UL94 V-O flame retardant)</b>              | ABS plastic                               |

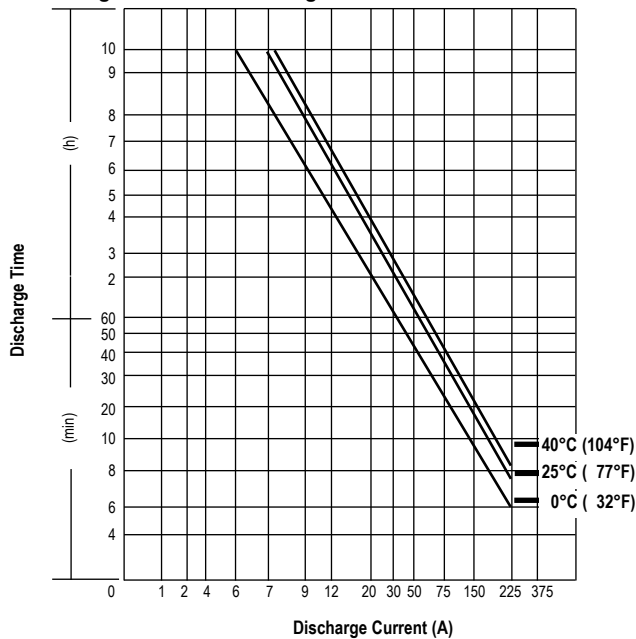
To ensure safe and efficient operation always refer to the latest edition of our Technical Manual, as published on our website.

CONSTANT CURRENT & POWER DISCHARGE RATINGS

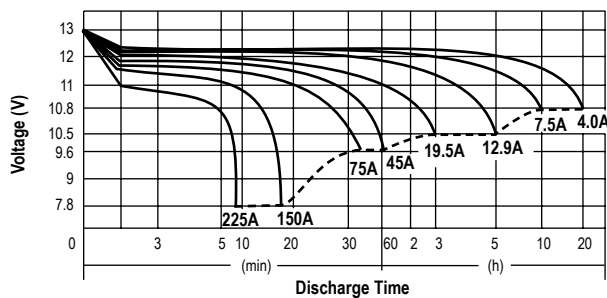
| Model     | Final | AMPS/WATTS PER CELL @ 25°C |     |        |     |        |     |        |     |        |     |        |     |        |     |
|-----------|-------|----------------------------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|
|           |       | 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   |
| 12V75T-FR | 1.80V | 145                        | 458 | 124    | 326 | 108    | 262 | 95     | 212 | 78     | 160 | 56     | 121 | 45     | 98  |
|           | 1.75V | 166                        | 470 | 135    | 335 | 118    | 268 | 105    | 218 | 83     | 165 | 61     | 125 | 46     | 100 |
|           | 1.67V | 190                        | 514 | 155    | 357 | 135.5  | 274 | 114    | 230 | 87.5   | 172 | 60.5   | 129 | 45     | 104 |
|           | 1.60V | 235                        | 528 | 174    | 366 | 140    | 285 | 115    | 236 | 86.3   | 178 | 60     | 132 | 44.5   | 106 |

PERFORMANCE CHARACTERISTICS

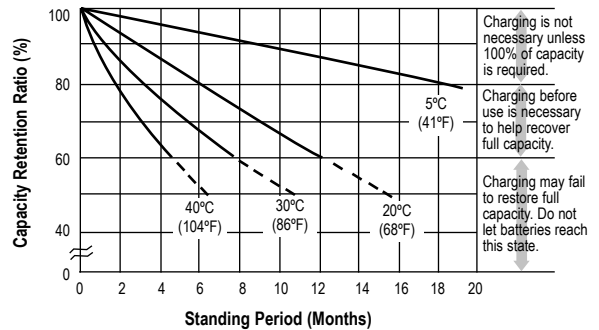
Discharge Time vs. Discharge Current



Discharge Characteristics



SELF-DISCHARGE & STORAGE

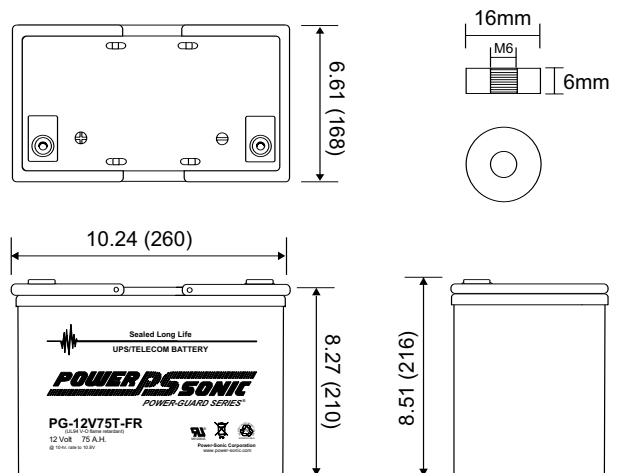


CHARGING

**Cycle Applications:** Limit initial current to 23A. Charge until battery voltage (under charge) reaches 14.40 to 14.70 volts at 68°F (20°C). Hold at 14.40 to 14.70 volts until current drops to approximately 750mA.

**“Float” or “Stand-By” Service:** Hold battery across constant voltage source of 13.50 to 13.80 volts continuously.

PHYSICAL DIMENSIONS



**CORPORATE OFFICE**  
 7550 Panasonic Way  
 San Diego, CA 92154 USA  
 Tel: +1-619-661-2020 Fax: +1-619-661-3650  
 national-sales@power-sonic.com

**CUSTOMER SERVICE**  
 Tel: +1-619-661-2030  
 Fax: +1-619-661-3648  
 customer-service@power-sonic.com

**SALES / INTERNATIONAL**  
 Tel: +1-650-364-5001  
 Fax: +1-650-366-3662  
 battery@power-sonic.com  
 www.power-sonic.com