

**PG-12V92-FR**

12 Volt 92 A.H.

**POWER SONIC**  
POWER-GUARD SERIES®

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 ( 4.90A to 10.8V )                                 | 98.0AH                                     |
| 10-hr. rate ( 9.20A to 10.8V )                                 | 92.0AH                                     |
| 8-hr. rate ( 11.0A to 10.5V )                                  | 88.0AH                                     |
| 5-hr. rate ( 15.8A to 10.5V )                                  | 79.0AH                                     |
| 3-hr. rate ( 23.9A to 10.5V )                                  | 71.7AH                                     |
| 1-hr. rate ( 55.2A to 9.6V )                                   | 55.2AH                                     |
| <b>Approximate Weight</b>                                      | 66.2 lbs. (30.0 kg)                        |
| <b>Energy Density ( 10-hr. rate )</b>                          | 1.69 W-hrs/in <sup>3</sup> (102.0 W-hrs/l) |
| <b>Specific Energy ( 10-hr. rate )</b>                         | 17.5 W-hrs/lb (38.6 W-hrs/kg)              |
| <b>Internal Resistance</b>                                     | 3.4 milliohms                              |
| <b>30-sec. Discharge Current to 1.60V/cell</b>                 | 552 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-0 flame retardant)</b>                | ABS plastic                                |

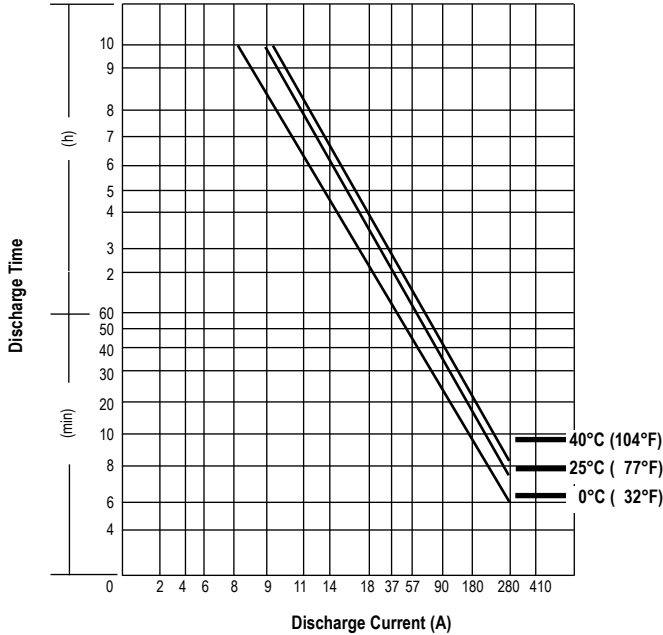
To ensure safe and efficient operation always refer to the latest edition of our Technical Manual, as published on our website.

CONSTANT CURRENT & POWER DISCHARGE RATINGS

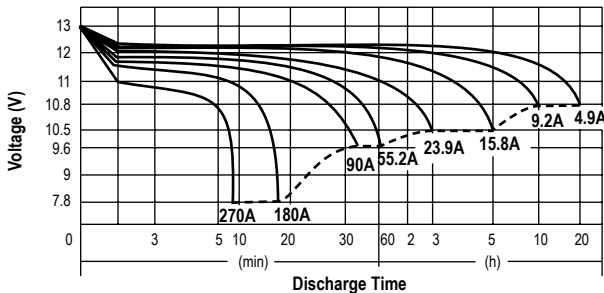
| Model    | Final | AMPS/WATTS PER CELL @ 25°C |     |        |     |        |     |        |     |        |     |        |     |        |     |
|----------|-------|----------------------------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|
|          |       | 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   |
| 12V92-FR | 1.80V | 174                        | 538 | 149    | 386 | 129    | 305 | 114    | 255 | 93     | 185 | 67     | 136 | 54     | 104 |
|          | 1.75V | 199                        | 552 | 215    | 405 | 141    | 312 | 125    | 264 | 99     | 198 | 73     | 146 | 54.5   | 108 |
|          | 1.67V | 228                        | 588 | 186    | 423 | 162.5  | 330 | 136.8  | 276 | 105    | 206 | 72.5   | 150 | 55.2   | 112 |
|          | 1.60V | 282                        | 626 | 205    | 435 | 168    | 337 | 138    | 280 | 105.8  | 210 | 73.6   | 153 | 54.6   | 115 |

PERFORMANCE CHARACTERISTICS

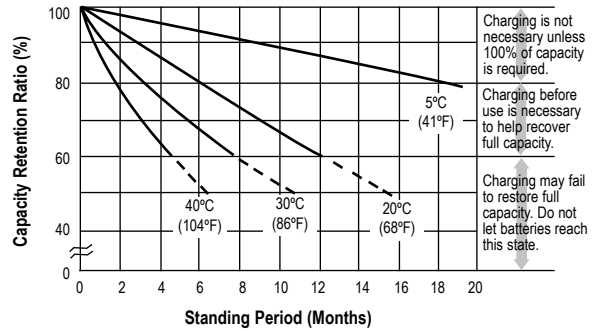
Discharge Time vs. Discharge Current



Discharge Characteristics



SELF-DISCHARGE & STORAGE

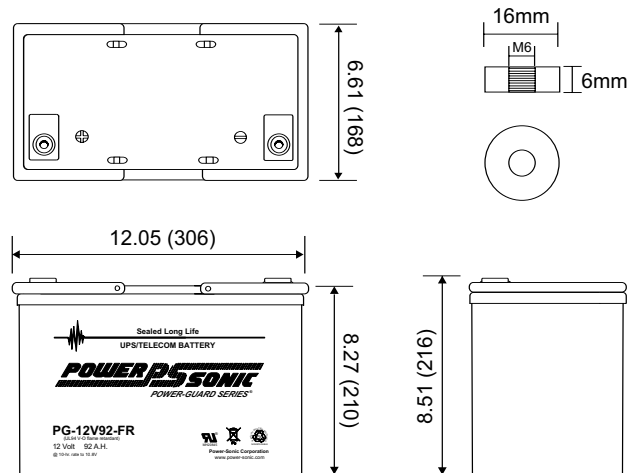


CHARGING

**Cycle Applications:** Limit initial current to 27.6A. 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 920mA (0.01C).

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

PHYSICAL DIMENSIONS



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