

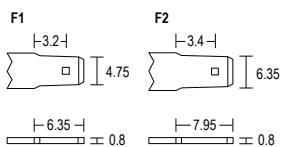
**PG-12V9.0, 12 Volt 8.60 AH @ 20-hr. rate**  
**PG-12V9.0 FR 7.98 AH @ 10-hr. rate**

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

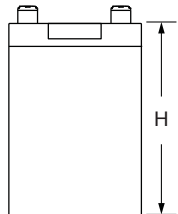
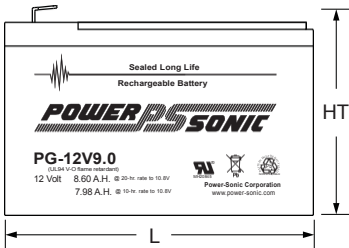
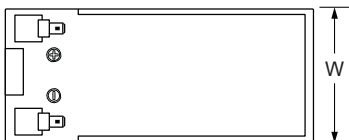


## Terminals (mm)

- F1 - Quick disconnect tabs, 0.187" x 0.032" - Mate with AMP. INC. FASTON "187" series — OR —
- F2 - Quick disconnect tabs, 0.250" x 0.032" - Mate with AMP. INC. FASTON "250" series



## Physical Dimensions: in (mm)



**L: 5.95 (151) W: 2.56 (65) H: 3.68 (93.5) HT: 3.90 (99)**

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 10 years in standby mode.
- Low Internal Resistance** - Superb high-rate discharge characteristics ensure reliable performance.
- 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

**Nominal Capacity**

20-hr. (430mA to 10.80 volts) .....	8.60 AH
10-hr. (798mA to 10.80 volts) .....	7.98 AH
8-hr. (956mA to 10.50 volts) .....	7.65 AH
5-hr. (1.42A to 10.50 volts) .....	7.10 AH
3-hr. (2.15A to 10.50 volts).....	6.45 AH
1-hr. (5.96A to 9.60 volts) .....	5.96 AH

**Approximate Weight** ..... 5.87 lbs. (2.66 kg)

**Energy Density (10-hr. rate)** ..... 1.84 W-h/in<sup>3</sup> (112.35 W-h/l)

**Specific Energy (10-hr. rate)** ..... 17.58 W-h/lb (38.76 W-h/kg)

**Internal Resistance (approx.)** ..... 19.0 milliohms

**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 - 12V9.0**..... ABS Plastic (UL-94-HB rated)

**Case - 12V9.0 FR**..... ABS Plastic (UL94 V-0 flame retardant)

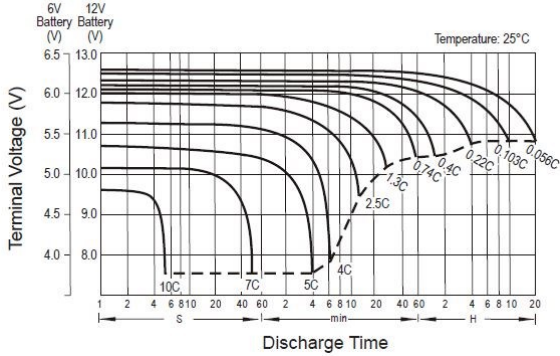
## Further Information

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), technical manual, ISO certification, etc..

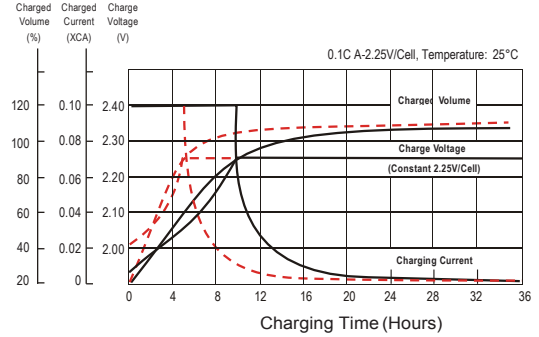
AMPS/WATTS @ 25 °C

FINAL VOLTAGE	10 MIN	15 MIN	30 MIN	45 MIN	1 HR	2 HR	3 HR	5 HR	8 HR	10 HR	20 HR
	A/W	A/W	A/W	A/W	A/W	A/W	A/W	A/W	A/W	A/W	A/W
1.85	19.1/35.6	15.0/28.2	9.24/17.6	6.71/12.9	5.24/10.1	2.84/5.50	2.03/3.95	1.34/2.63	0.927/1.83	0.776/1.54	0.421/0.836
1.80	20.9/38.4	16.2/30.1	9.65/18.2	6.95/13.2	5.43/10.4	2.93/5.66	2.09/3.20	1.38/2.69	0.956/1.88	0.798/1.58	0.430/0.851
1.75	22.1/40.1	17.2/31.6	10.0/18.8	7.20/13.6	5.61/10.7	3.03/5.82	2.15/3.30	1.42/2.78	0.994/1.95	0.819/1.61	0.449/0.867
1.70	23.3/41.8	18.0/32.6	10.4/19.4	7.42/14.0	5.75/10.9	3.12/5.97	2.22/3.39	1.46/2.84	1.00/1.97	0.834/1.64	0.444/0.877
1.67	24.1/42.6	18.5/33.3	10.7/19.8	7.60/14.2	5.86/11.1	3.17/6.05	2.26/3.45	1.49/2.89	1.02/2.00	0.843/1.65	0.447/0.881
1.60	25.0/43.6	18.9/33.6	10.9/20.0	7.72/14.3	5.96/11.2	3.22/6.12	2.28/3.47	1.51/2.92	1.03/2.01	0.850/1.67	0.450/0.885

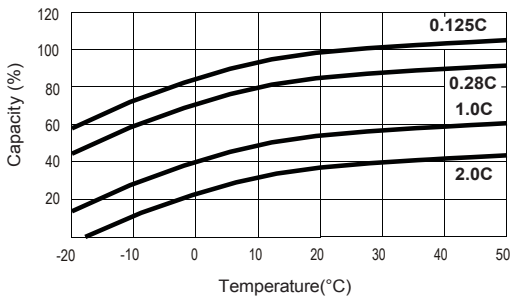
Discharge Characteristics



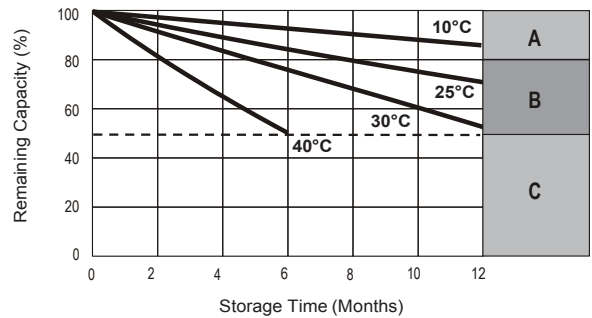
Float Charging Characteristics



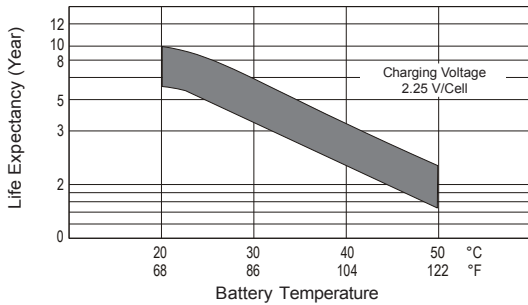
Temperature Effects in Relation to Battery Capacity



Self-Discharge Characteristics



Effect of Temperature on Long-Term Float Life



- A** No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below: 1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell. 2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell. 3. Charged for 8-10 hours at limited current 0.05CA.
- C** Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is reached

Charging

**Cycle Applications:** Limit initial current to less than 2.58A. Charge until battery voltage (under charge) reaches 14.4 to 15.0 volts at 77 °F (25 °C) (Temperature Coefficient -5V/C). Hold at 14.4 to 15.0 volts until current drops to under 86mA. 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.

Contact Information



**DOMESTIC SALES**  
 Tel: (07) 3386 1102  
 Fax: (07) 3102 9913  
[sales@spb.net.au](mailto:sales@spb.net.au)

[www.sealedperformance.com.au](http://www.sealedperformance.com.au)  
 1 Ant Road, Yatala  
 Brisbane QLD 4207

