

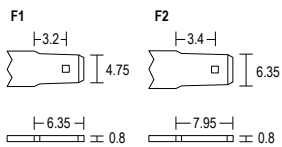
**PG-12V7.5, 12 Volt 8.50 AH @ 20-hr. rate**  
**PG-12V7.5 FR 7.88 AH @ 10-hr. rate**

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

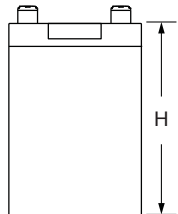
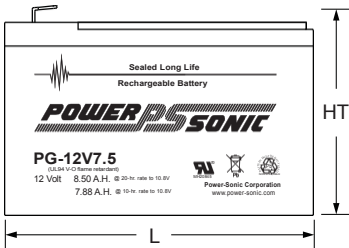
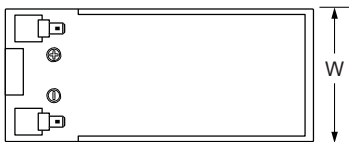


## Terminals (mm)

- 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

<b>Nominal Voltage</b> .....	12 volts
<b>Nominal Capacity</b>	
20-hr. (425mA to 10.80 volts) .....	8.50 AH
10-hr. (788mA to 10.80 volts) .....	7.88 AH
8-hr. (950mA to 10.50 volts) .....	7.60 AH
5-hr. (1.41A to 10.50 volts) .....	7.05 AH
3-hr. (2.13A to 10.50 volts).....	6.39 AH
1-hr. (5.89A to 9.60 volts) .....	5.89 AH
<b>Approximate Weight</b> .....	5.40 lbs. (2.45 kg)
<b>Energy Density</b> (10-hr. rate) .....	1.82 W-h/in <sup>3</sup> (111.04 W-h/l)
<b>Specific Energy</b> (10-hr. rate) .....	18.89 W-h/lb (41.64 W-h/kg)
<b>Internal Resistance</b> (approx.) .....	18.0 milliohms
<b>Shelf Life</b> (% of nominal capacity at 68 °F (20 °C))	
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.....	-40 °F (-40 °C) to 140 °F (60 °C)
<b>Case - 12V7.5</b> .....	ABS Plastic (UL-94-HB rated)
<b>Case - 12V7.5 FR</b> .....	ABS Plastic (UL94 V-0 flame retardant)

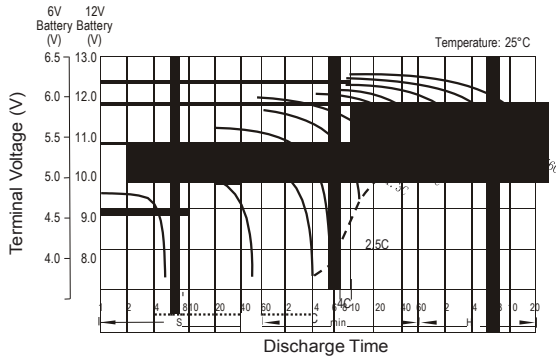
## Further Information

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..

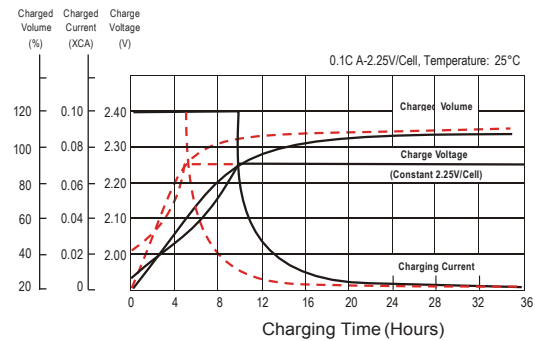
AMPS/WATTS @ 25 °C

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	18.8/35.3	15.5/29.1	9.32/17.7	6.63/12.7	5.18/10.0	2.81/5.46	2.00/3.90	1.32/2.59	0.917/1.81	0.767/1.52	0.416/0.825
1.80	20.6/37.7	16.7/30.9	9.75/18.4	6.86/13.1	5.37/10.3	2.90/5.59	2.07/4.00	1.36/2.66	0.950/1.87	0.788/1.56	0.425/0.841
1.75	21.9/39.8	17.5/32.2	10.15/19.0	7.12/13.5	5.55/10.6	2.99/5.75	2.13/4.11	1.41/2.74	0.978/1.92	0.810/1.60	0.434/0.857
1.70	22.9/41.1	18.4/33.3	10.50/19.6	7.34/13.8	5.69/10.8	3.08/5.90	2.19/4.22	1.45/2.81	0.991/1.95	0.825/1.63	0.439/0.867
1.67	23.9/42.0	19.0/34.0	10.81/20.0	7.51/14.0	5.79/11.0	3.14/6.00	2.23/4.28	1.47/2.85	1.008/1.97	0.833/1.64	0.442/0.872
1.60	24.4/42.4	19.4/34.2	11.02/20.1	7.63/14.2	5.89/11.1	3.18/6.06	2.26/4.31	1.49/2.87	1.017/1.99	0.840/1.65	0.445/0.875

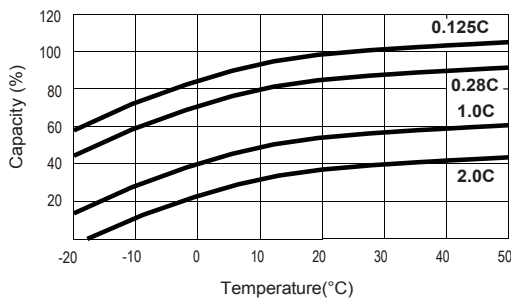
Discharge Characteristics



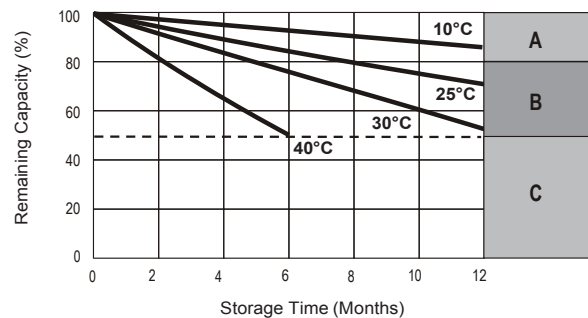
Float Charging Characteristics



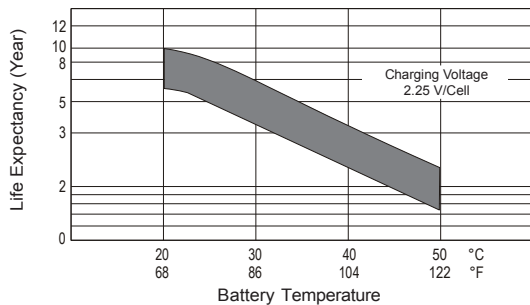
Temperature Effects in Relation to Battery Capacity



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 volatge 2.25V/cell. 2.Charged for above 20hours at limited current 0.25CA and constant volatge 2.45V/cell. 3.Charged for 8-10hours 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 2.55A. 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 85mA. 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



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