

**PG-6V100,  
PG-6V100 FR**

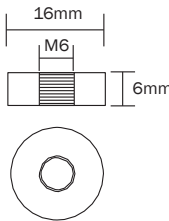
**6 Volt 107 AH @ 20-hr. rate  
100 AH @ 10-hr. rate**

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

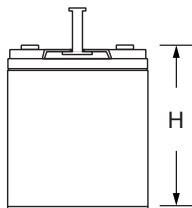
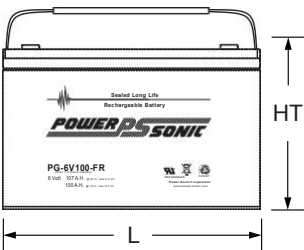
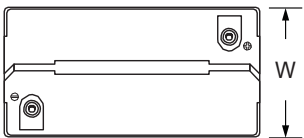


## Terminals (mm)

- T6: Threaded insert w. 6 mm stud fastener



## Physical Dimensions: in (mm)



**L: 7.68 (195) W: 6.69 (170) H: 8.13 (206.5) HT: 8.37 (212.5)**

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 in UPS and Telecom applications.
- **Maintenance-Free, Non-Spillable** - Proven VRLA technology guarantees safe operation without maintenance and 'non-restricted article' status for transportation.
- **Handle** - Detachable ABS carrying handle.
- **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.

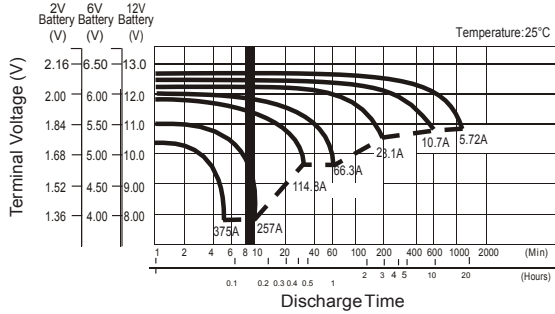
## Performance Specifications

<b>Nominal Voltage</b> .....	6 volts (3 cells)
<b>Nominal Capacity</b>	
20-hr. (5.35A to 5.40 volts) .....	107.0 AH
10-hr. (10.0A to 5.40 volts) .....	100.0 AH
8-hr. (11.9A to 5.25 volts) .....	95.2 AH
5-hr. (17.4A to 5.25 volts) .....	87.0 AH
3-hr. (26A to 5.25 volts) .....	78.0 AH
1-hr. (62A to 4.80 volts) .....	62.0 AH
<b>Approximate Weight</b> .....	36.4 lbs. (16.5 kg)
<b>Energy Density</b> (10-hr. rate) .....	1.54 W-h/in <sup>3</sup> (93.76 W-h/l)
<b>Specific Energy</b> (10-hr. rate) .....	17.64 W-h/lb (38.88 W-h/kg)
<b>Internal Resistance</b> (approx.) .....	5 milliohms
<b>Max Short-Duration Discharge Current</b> (10 Sec.) .....	630 amperes
<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</b> .....	ABS Plastic (UL94 V-0 flame retardant)
<b>Power-Sonic Chargers</b> .....	n/a

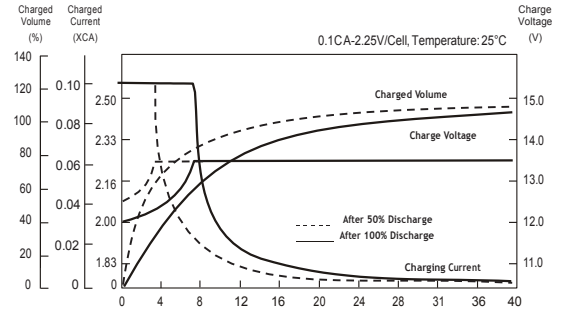
AMPS/WATTS @ 25 °C

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	117.0/218.5	98.4/185.6	72.4/139.4	55.9/108.5	47.8/93.2	31.0/60.7	23.3/45.8	16.0/31.8	11.3/22.5	9.69/19.4	5.17/10.3
1.80	133.9/247.1	110.5/205.6	78.6/149.2	60.3/116.1	50.5/97.8	33.3/64.8	25.0/49.0	17.0/33.5	11.9/23.6	10.0/20.0	5.35/10.7
1.75	152.1/276.2	124.5/228.9	85.5/160.8	65.7/125.5	55.0/106.1	34.6/67.2	26.0/50.7	17.4/34.2	12.3/24.3	10.3/20.5	5.49/10.9
1.70	171.7/304.9	138.2/250.5	93.3/174.6	70.8/134.7	58.2/112.0	36.5/70.6	27.4/53.3	18.4/36.1	12.8/25.3	10.7/21.2	5.63/11.2
1.65	184.4/324.5	147.9/266.2	98.5/182.7	74.9/141.2	60.2/115.0	37.8/72.8	28.5/55.2	19.0/37.1	13.2/26.1	11.0/21.8	5.80/11.6
1.60	202.9/348.9	162.0/286.8	105.1/193.6	77.9/146.0	62.0/117.8	38.8/74.3	29.2/56.4	19.4/37.9	13.4/26.5	11.2/22.2	5.89/11.7

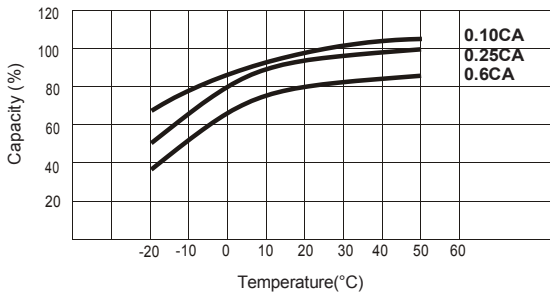
Discharge Characteristics



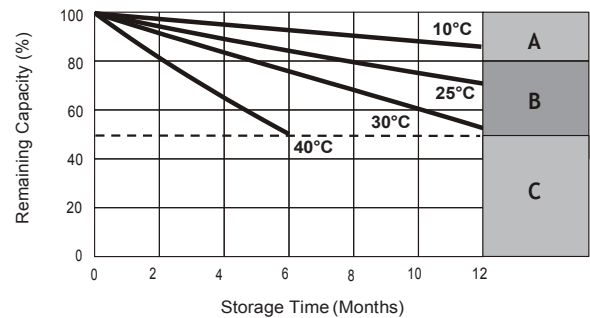
Float Charging Characteristics



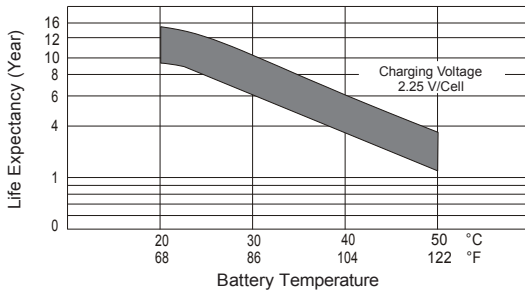
Temperature Effects in Relation to Battery Capacity



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 30A. Charge until battery voltage (under charge) reaches 7.20 to 7.50 volts at 77 °F (25 °C) (Temperature Coefficient -5V/C). Hold at 7.20 to 7.50 volts until current drops to under 107mA. 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 6.75 to 6.90V 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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