

**PG-2V300, 2 Volt 325.4 AH @ 20-hr. rate**  
**PG-2V300 FR 300.0 AH @ 10-hr. rate**

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



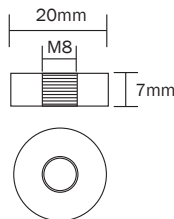
## Features

- **Long Service Life** - Thick plate design and efficient gas recombination yield a service life expectancy of 15 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.

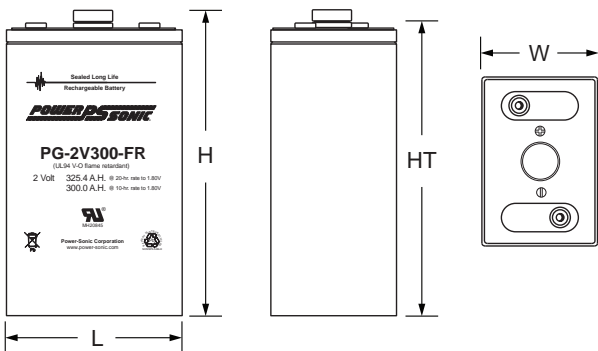
## Terminals

(mm)

- T11: Threaded insert w. 6 mm stud fastener



## Physical Dimensions: in (mm)



**L: 6.69 (170) W: 5.91 (150) H: 13.78 (350) HT: 13.19 (335)**

Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

## Performance Specifications

**Nominal Voltage** ..... 2 volts

### Nominal Capacity

20-hr. (16.27A to 1.80 volts) .....	325.4 AH
10-hr. (30.0A to 1.80 volts) .....	300.0 AH
8-hr. (36.6A to 1.75 volts) .....	292.8 AH
5-hr. (52.5A to 1.75 volts) .....	262.5 AH
3-hr. (79.5A to 1.75 volts) .....	236.5 AH
1-hr. (195A to 1.60 volts) .....	195.0 AH

**Approximate Weight** ..... 38.6 lbs. (17.5 kg)

**Energy Density (10-hr. rate)** ..... 1.18 W-h/in<sup>3</sup> (71.73 W-h/l)

**Specific Energy (10-hr. rate)** ..... 15.55 W-h/lb (34.28 W-h/kg)

**Internal Resistance (approx.)** ..... 0.9 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)

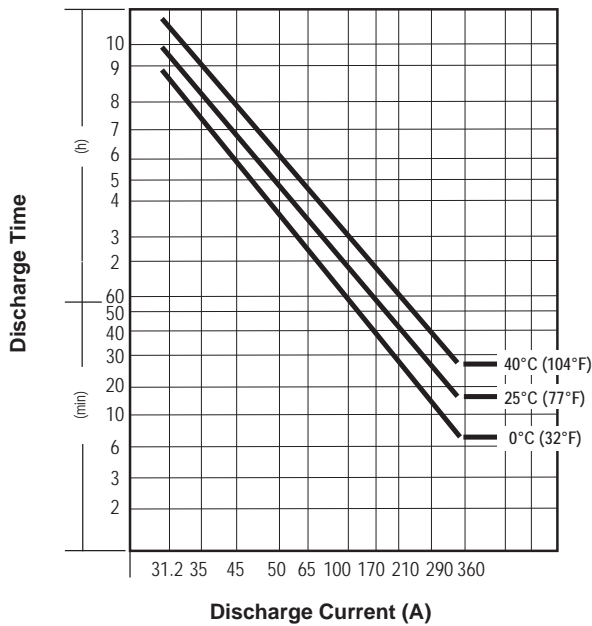
**Case - 2V300** ..... ABS Plastic (UL-94-HB rated)

**Case - 2V300 FR** ..... ABS Plastic (UL94 V-O flame retardant)

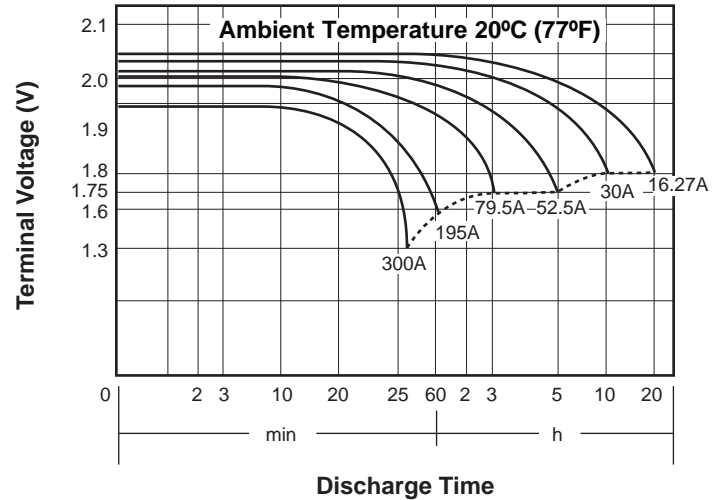
AMPS/WATTS @ 25° C

FINAL VOLTAGE	30 MIN	45 MIN	1 HR	2 HR	3 HR	4 HR	5 HR	6 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	205.8/393.1	157.4/326.2	151.4/312.8	92.1/187.0	71.2/143.6	56.9/143.6	47.7/96.0	42.6/85.8	33.8/67.8	28.2/56.6	15.5/32.0
1.80	238.9/452.0	178.6/364.3	168.8/344.5	100.5/202.3	77.0/154.2	61.2/154.2	51.1/102.4	45.5/91.4	36.0/72.0	30.0/60.0	16.3/33.5
1.75	250.0/468.1	185.3/374.6	175.5/355.5	104.2/208.5	79.5/158.4	63.0/158.4	52.5/104.7	46.5/93.0	36.6/73.1	30.4/60.7	16.4/33.8
1.70	261.5/484.8	192.2/384.9	182.2/366.1	108.0/214.8	81.9/162.5	64.7/162.5	53.9/107.0	47.7/95.0	37.1/73.9	30.8/61.4	16.6/34.2
1.67	268.8/495.5	195.8/390.1	185.8/371.8	110.2/218.3	83.1/164.3	65.7/164.3	54.7/108.3	48.4/96.2	37.4/74.4	31.1/61.9	16.8/34.4
1.60	285.0/517.6	205.5/404.0	195.0/386.1	115.4/226.6	86.9/170.6	68.3/170.6	56.8/111.8	50.0/98.9	38.1/75.6	31.6/62.9	17.1/35.0

**Discharge Time vs. Discharge Current**



**Discharge Characteristics**



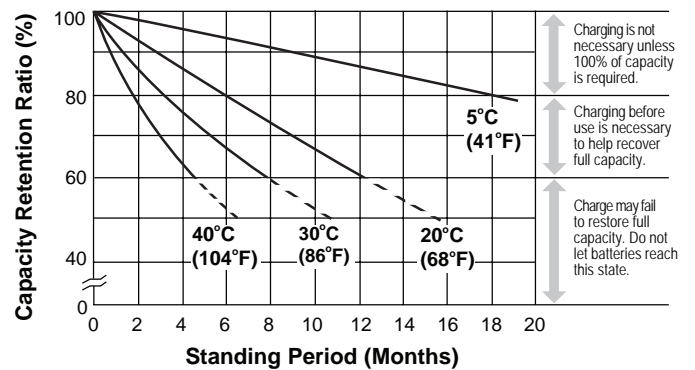
**Charging**

**Cycle Applications:** Limit initial current to less than 30A. Charge until battery voltage (under charge) reaches 2.40 to 2.50 volts at 77°F (25°C) (Temperature Coefficient -5V/C). Hold at 2.40 to 2.50 volts until current drops to under 600mA. 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 2.25 to 2.30 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.

**Shelf Life & Storage**



**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..

**Contact Information**

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