

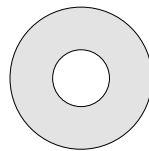
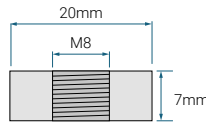


## PS-50PzV250 2V 250.0 AH @ 10-hr. 2V 316.0 AH @ 100-hr.

Rechargeable Sealed Lead Acid Battery  
PSOPzV – Tubular Gel Series

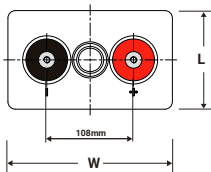
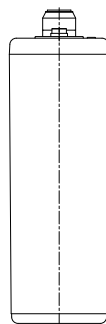
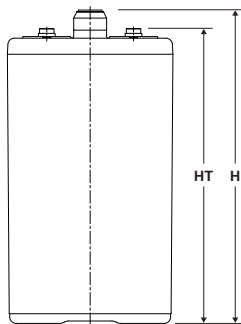
### TERMINALS: (mm)

T11: Threaded insert with 8mm stud fastener



Torque: 11.0~14.7 Nxm

### DIMENSIONS: inch (mm)



L: 4.88 (124)  
W: 8.11 (206)  
H: 14.0 (355)  
HT: 15.3 (390)

Tolerances are +/- 0.11 in. (+/- 3mm) for all dimensions. All data subject to change without notice.

### CORPORATE HEADQUARTERS (USA AND INTERNATIONAL EXCLUDING EMEA)

**Power-Sonic Corporation**  
7550 Panasonic Way, San Diego,  
California 92154  
T: +1 (619) 661 2020  
F: +1 (619) 661 3650  
E: customer-service@power-sonic.com

### POWER-SONIC EUROPE LIMITED (EMEA – EUROPE, MIDDLE EAST AND AFRICA)

3 Buckingham Square,  
Hurricane Way, Wickford,  
Essex SS11 8YQ  
T: +44 (0)1268 560686  
F: +44 (0)1268 560902  
E: salesEMEA@power-sonic.com

## FEATURES

- Tubular plate and gel electrolyte for increased performance, service life and reliability
- Superior cyclic performance
- Enhanced overcharge endurance
- 20 year design life in float applications
- Excellent recovery from over discharge situations
- Rugged impact resistant ABS case and cover (UL94-HB) Also available to UL94-V0

## APPROVALS

- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified
- U.L. recognized
- ISO9001:2015 – Quality management systems

## PERFORMANCE SPECIFICATIONS

**Nominal Voltage** 2 volts (1 cell)

Nominal Capacity	
100-hr. (1.80 volts)	316.0 AH
20-hr. (1.80 volts)	267.3 AH
10-hr. (1.80 volts)	250.0 AH
5-hr. (1.75 volts)	219.0 AH
3-hr. (1.75 volts)	194.7 AH
1-hr. (1.60 volts)	143.0 AH

**Approximate Weight** 48.5 lbs. (22.0 kg)

**Internal Resistance (approx.)** 1.1 milliohms

**Shelf Life** (% of nominal capacity at 68°F (20°C))

1 Month	97%
3 Month	91%
6 Month	83%

**Operating Temperature Range**

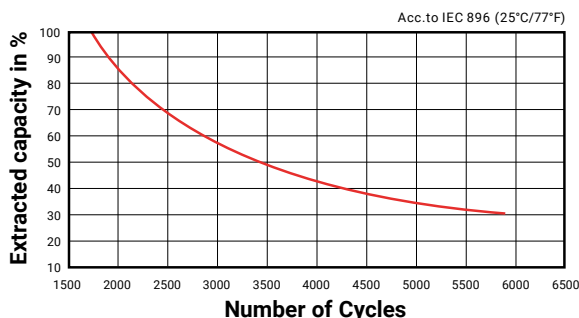
Charge	5°F (-15°C) to 122°F (50°C)
Discharge	-4°F (-20°C) to 140°F (60°C)

**Case** ABS Plastic

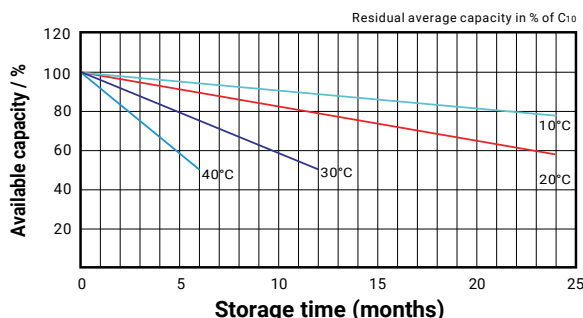
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2V 316.0 AH @ 100-hr.

Rechargeable Sealed Lead Acid Battery  
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**CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE**



**GENERAL RELATION OF CAPACITY VS. STORAGE TIME**



**CHARGING**

**Cycle Applications:** Apply constant voltage charge at 2.35v/c - 2.45v/c (14.1 – 14.7v for 12v Monobloc) at 20°C. Initial charging current should be set at less than 0.25C Amps. Switch to float charge to avoid overcharging.

**“Float” or “Stand-By” Service:** Apply constant voltage charge of 2.25v/c – 2.30v/c (13.5 to 13.8 volts for 12v Monobloc) at 20°C. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

**Temperature Compensation:** Charging Voltage for both Cyclic and Standby applications should be regulated in relation to ambient temperature. As temperature rises charging voltage should be reduced to prevent overcharge and increased as temperature falls to avoid undercharge.

For further charging information including temperature compensation factors, see Power Sonic Technical Manual/ Power Sonic Charger specifications.

**APPLICATIONS**

- Solar
- Wind
- Telecommunications
- UPS
- Utilities
- Signalling (airport, railway, seaport)

**CHARGERS**

Power Sonic offers a wide range of chargers suitable for batteries with a variety of capacities.

Please refer to our website for more information on our switch mode and transformer type chargers.

Please contact our technical department for advice if you have difficulty in locating a suitable charger.

**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), ISO certification, etc.



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F: +1 (619) 661 3650  
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F: +44 (0)1268 560902  
E: [salesEMEA@power-sonic.com](mailto:salesEMEA@power-sonic.com)