**PSOPzV SERIES**

**PERFORMANCE SPECIFICATIONS**

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

**Nominal Capacity**
- 100-hr. (1.80 volts) 1011.0 AH
- 20-hr. (1.80 volts) 855.2 AH
- 10-hr. (1.80 volts) 800.0 AH
- 5-hr. (1.75 volts) 690.0 AH
- 3-hr. (1.75 volts) 609.0 AH
- 1-hr. (1.60 volts) 454.0 AH

**Approximate Weight**
142.2 lbs. (64.5 kg)

**Internal Resistance (approx.)**
0.5 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

**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**
- U.L. recognized
- ISO9001:2015 – Quality management systems

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**TERMINALS: (mm)**

- T11: Threaded insert with 8mm stud fastener

**TOLERANCES**
- Threaded insert: +/- 0.11 in. (+/-3mm) for all dimensions.
- All data subject to change without notice.

**DIMENSIONS: inch (mm)**

- L: 7.52 (191)
- W: 8.27 (210)
- H: 25.4 (646)
- HT: 26.8 (681)

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

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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.