



Solar



Wind



Telecomms



UPS



Utility



Signalling

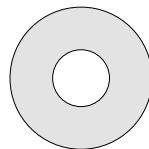
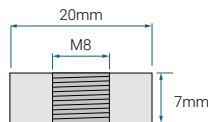


PS-70PzV490 2V 490.0 AH @ 10-hr. 2V 619.4 AH @ 100-hr.

Rechargeable Sealed Lead Acid Battery
PSOPzV – Tubular Gel Series

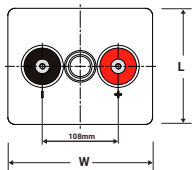
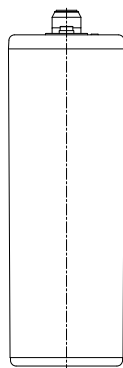
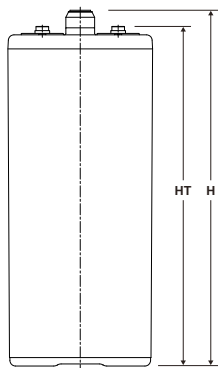
TERMINALS: (mm)

T11: Threaded insert with 8mm stud fastener



Torque: 11.0~14.7 Nxm

DIMENSIONS: inch (mm)



L: 6.54 (166) W: 8.11 (206)
H: 18.5 (471) HT: 19.9 (506)

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

CORPORATE HEADQUARTERS (USA AND INTERNATIONAL EXCLUDING EMEA)

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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

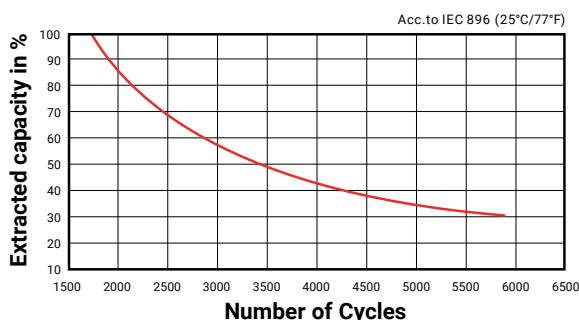
PERFORMANCE SPECIFICATIONS

Nominal Voltage	2 volts (1 cell)
Nominal Capacity	
100-hr. (1.80 volts)	619.4 AH
20-hr. (1.80 volts)	523.8 AH
10-hr. (1.80 volts)	490.0 AH
5-hr. (1.75 volts)	426.5 AH
3-hr. (1.75 volts)	378.0 AH
1-hr. (1.60 volts)	279.0 AH
Approximate Weight	86.0 lbs. (39.0 kg)
Internal Resistance (approx.)	0.73 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

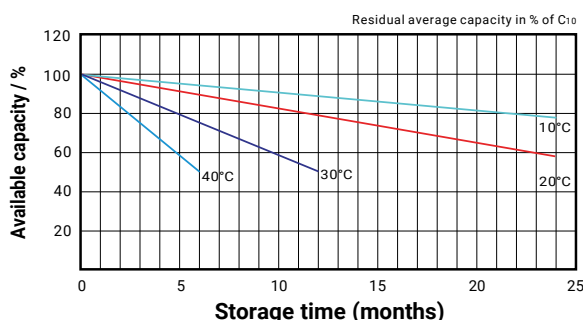
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Rechargeable Sealed Lead Acid Battery
PSOPzV – Tubular Gel Series

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 for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc.



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