



Solar

Wind

Telecomms

UPS

Utility

Signalling

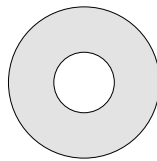
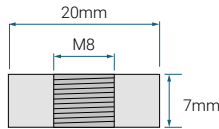


## PS-70PzV490 **2V 490.0 AH @ 10-hr.** **2V 619.4 AH @ 100-hr.**

Rechargeable Sealed Lead Acid Battery  
PSOPzV – Tubular Gel Series

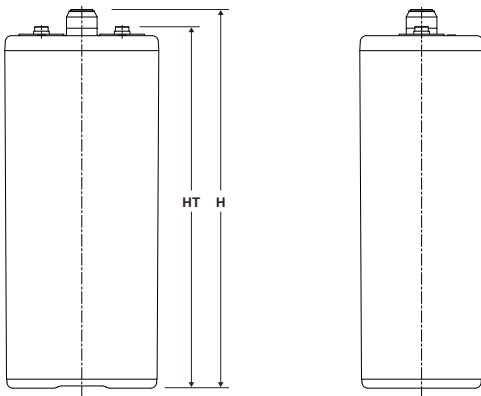
### TERMINALS: (mm)

**T11:** Threaded insert with  
8mm stud fastener



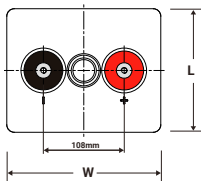
Torque: 11.0~14.7 Nxm

### 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.



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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

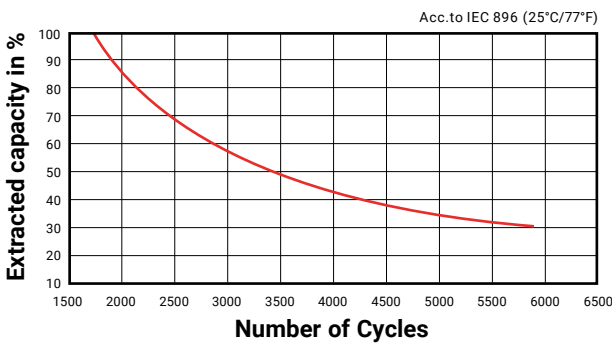
## PERFORMANCE SPECIFICATIONS

<b>Nominal Voltage</b>	2 volts (1 cell)
<b>Nominal Capacity</b>	
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
<b>Approximate Weight</b>	86.0 lbs. (39.0 kg)
<b>Internal Resistance (approx.)</b>	0.73 milliohms
<b>Shelf Life</b> (% of nominal capacity at 68°F (20°C))	
1 Month	97%
3 Month	91%
6 Month	83%
<b>Operating Temperature Range</b>	
Charge	5°F (-15°C) to 122°F (50°C)
Discharge	-4°F (-20°C) to 140°F (60°C)
<b>Case</b>	ABS Plastic

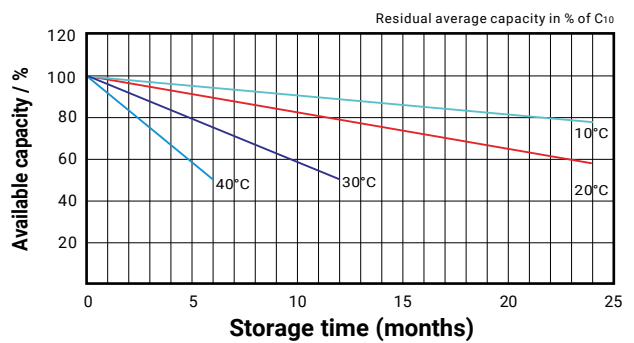
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2V 619.4 AH @ 100-hr.

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 up to 100AH.

Please refer to the Charger Selection Guide in our specification sheets for “C-Series Switch Mode Chargers” and “Transformer Type A and F Series”.

Please contact our Technical department for advice if you have difficulty in locating suitable models.

**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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