POWER PS SONIC
TRUSTED BATTERY SOLUTIONS

PSOPzV SERIES

Solar Wind Telecomms UPS Utility Signalling

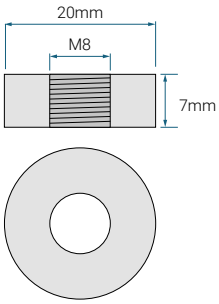
PS-50PzV350

2V 350.0 AH @ 10-hr.
2V 442.4 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

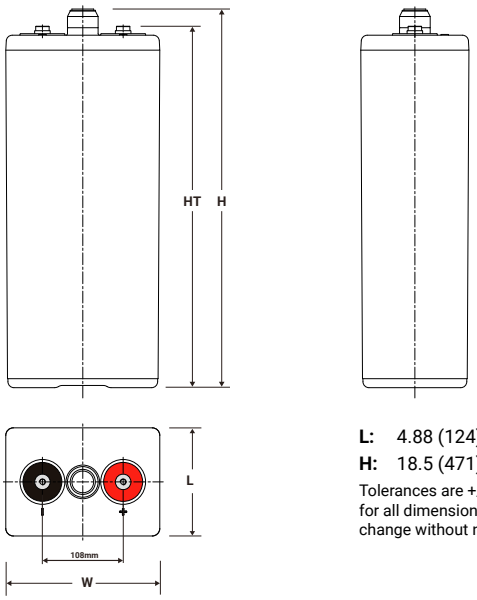
FEATURES

- 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

DIMENSIONS: inch (mm)



L: 4.88 (124) **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.

PERFORMANCE SPECIFICATIONS

Nominal Voltage		2 volts (1 cell)
Nominal Capacity		
100-hr.	(1.80 volts)	442.4 AH
20-hr.	(1.80 volts)	374.2 AH
10-hr.	(1.80 volts)	350.0 AH
5-hr.	(1.75 volts)	305.0 AH
3-hr.	(1.75 volts)	270.4 AH
1-hr.	(1.60 volts)	199.0 AH
Approximate Weight		63.9 lbs. (29.0 kg)
Internal Resistance (approx.)		0.9 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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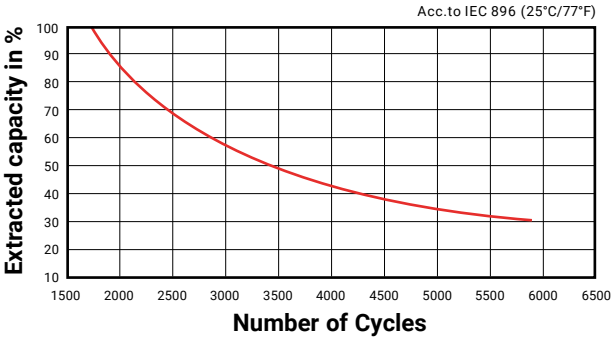
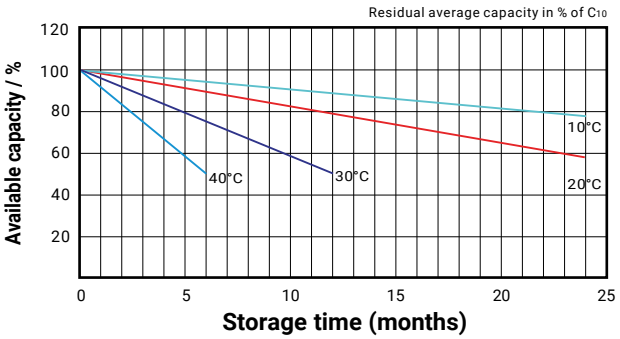
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



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

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