

Tubular Gel Battery 2 Volt 490 AH @ 10-hr. rate 2 Volt 619.4 AH @ 100-hr. rate Rechargeable Sealed Lead Acid Battery Designed for Cyclic, Standby, and Solar Applications

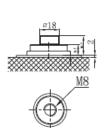


PSOPzV490 2v490AH



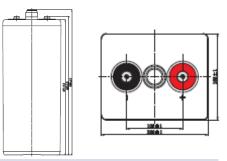
Terminals

 T11: Threaded insert 8 mm stud fastener



(**mm**)

Physical Dimensions: in (mm)



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

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

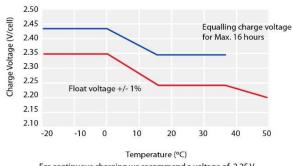
Features

- Tubular plate and Gel electrolyte for increased performance, service life and reliability
- Gel electrolyte and spill proof construction allows safe operation
 and maintenance free
- Excellent cyclic performance
- Enhanced overcharge endurance
- · Excellent recovery from over discharge situations
- · Perfect for applications including
 - Solar / Wind energy storage
 - Telecommunications
 - UPS and critical power
 - Railway signaling
 - Utilities
- · Rugged impact resistant ABS case
- Certified for transport by air, D.O.T., I.A.T.A., F.A.A. and C.A.B.
- 20 year design life in float applications

Performance Specifications

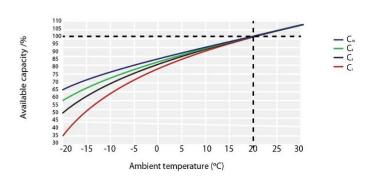
Nominal Voltage
Nominal Capacity
100-hr. (1.80 volts)
20-hr. (1.80 volts)
10-hr. (1.80 volts) 490.0 AH
5-hr. (1.75 volts) 426.5 AH
3-hr. (1.75 volts) 378.0 AH
1-hr. (1.60 volts) 279.0 AH
Approximate Weight
Internal Resistance (approx.)0.73 milliohms
Max. Discharge Current (approx.)
Shelf Life
Operating Temperature Range
Charge
Discharge4°F (-20°C) to 131°F (55°C)
Case ABS Plastic

TEMPERATURE EFFECTS IN RELATION TO CHARGE VOLTAGE



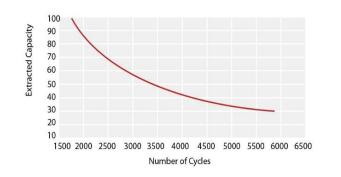
For continuous charging we recommend a voltage of $2.25 \, V$ The charging voltage must be compensated to the curve for a continuously different battery ambient temperature

TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE

Acc. to IEC 896 (25°C/77°F)



Charging

Cycle Applications: Limit initial current to less than 122.5A. Charge until battery voltage (under charge) reaches 2.40 to 2.50 volts at 68°F (20°C). Coefficient - 5mV/°C

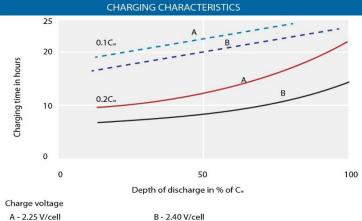
"Float" or "Stand-By" Service: Hold battery across constant voltage source of 2.25 to 2.30 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

Note: Due to the self-discharge characteristics of this type of battery, it is imperative that they be charged within 6 months of storage, otherwise permanent loss of capacity might occur as a result of sulfation.

Contact Information



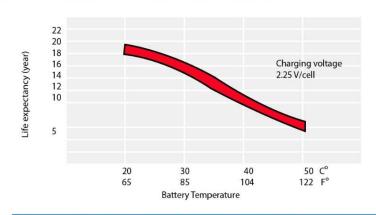
DOMESTIC SALES Tel: (07) 3386 1102 Fax: (07) 3102 9913 <u>sales@spb.net.au</u>



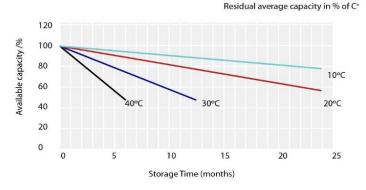
A - 2.25 V/cell State of charge 100%

EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE

State of charge 90%



GENERAL RELATION OF CAPACITY VS STORAGE TIME



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.

www.sealedperformance.com.au 1 Ant Road, Yatala Brisbane QLD 4207



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