Tubular Gel Battery 2 Volt 800 AH @ 10-hr. rate 2 Volt 1011 AH @ 100-hr. rate

Rechargeable Sealed Lead Acid Battery
Designed for Cyclic, Standby, and Solar Applications

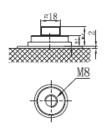


PSOPzV800 2v800AH



• T11: Threaded insert 8 mm stud fastener

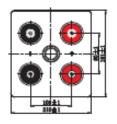
Terminals



(mm)

Physical Dimensions: in (mm)





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

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

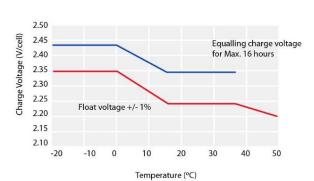
Features

- 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

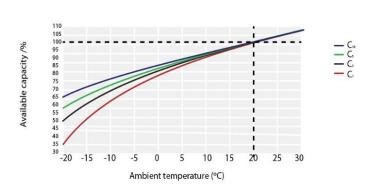
Nominal Voltage	2 volts
Nominal Capacity	
100-hr. (1.80 volts)	1011.0AH
20-hr. (1.80 volts)	855.2AH
10-hr. (1.80 volts)	800.0 AH
5-hr. (1.75 volts)	690.0 AH
3-hr. (1.75 volts)	609.0 AH
1-hr. (1.60 volts)	454.0 AH
Approximate Weight	142.2 lbs. (64.5 kg)
Internal Resistance (approx.)	0.5 milliohms
Max. Discharge Current (approx.)	6400A (5s)
Shelf Life	<2% per month at 68°F (20°C)
Operating Temperature Range	
Charge	32°F (0°C) to 104°F (40°C)
Discharge	4°F (-20°C) to 131°F (55°C)
Case	ABS Plastic

TEMPERATURE EFFECTS IN RELATION TO CHARGE VOLTAGE



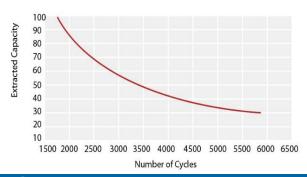
For continuous charging we recommend a voltage of 2.25 V The charging voltage must be compensated to the curve for a continuously different battery ambient temperature

TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE

Acc. to IEC 896 (25°C/77°F)

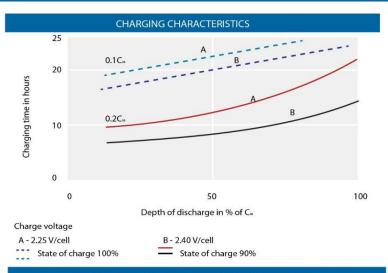


Charging

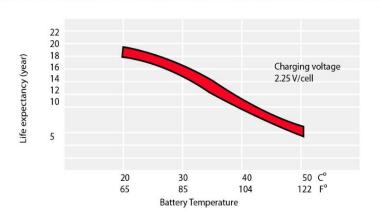
Cycle Applications: Limit initial current to less than 200A. Charge until battery voltage (under charge) reaches 2.40 to 2.50 volts at $68^{\circ}F$ ($20^{\circ}C$). Coefficient - $5mV/^{\circ}C$

"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.

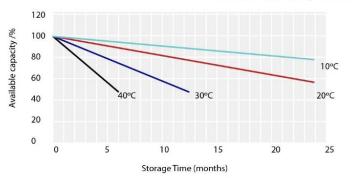


EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



GENERAL RELATION OF CAPACITY VS STORAGE TIME

Residual average capacity in % of C°



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.

