**Tubular Gel Battery** 2 Volt 1200 AH @ 10-hr. rate 2 Volt 1517 AH @ 100-hr. rate Rechargeable Sealed Lead Acid Battery Designed for Cyclic, Standby, and Solar Applications

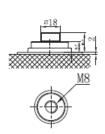


PSOPzV1200 2v1200AH



. T11: Threaded insert 8 mm stud fastener

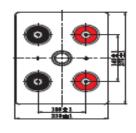
**Terminals** 



(mm)

# **Physical Dimensions: in (mm)**





L: 10.8 (275) W: 8.27 (210) H: 25.4 (645) TH: 26.8 (681)

**Features** 

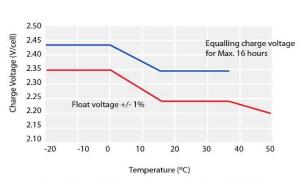
- Tubular plate and Gel electrolyte for increased performance, service life and reliability
- Gel electrolyte and spill proof construction allows safe operation and maintenance free
- Excellent cyclic performance
- Enhanced overcharge endurance
- Excellent recovery from over discharge situations
- Perfect 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)
5-hr. (1.75 volts)
3-hr. (1.75 volts) 915.0 AH
1-hr. (1.60 volts) 681.0 AH
Approximate Weight 205 lbs. (93.0 kg)
Internal Resistance (approx.)0.4 milliohms
<b>Max. Discharge Current</b> (approx.)
<b>Shelf Life</b>
Operating Temperature Range
Charge
Discharge4°F (-20°C) to 131°F (55°C)

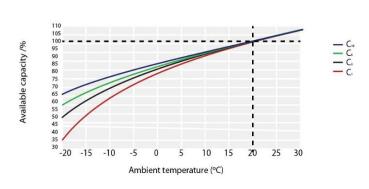
Case ...... ABS Plastic

#### TEMPERATURE EFFECTS IN RELATION TO CHARGE VOLTAGE



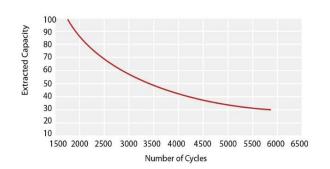
For continuous charging we recommend a voltage of  $2.25\,\mathrm{V}$  The charging voltage must be compensated to the curve for a continuously different battery ambient temperature

### TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



## CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE

Acc. to IEC 896 (25°C/77°F)

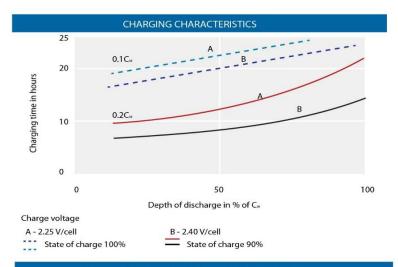


# **Charging**

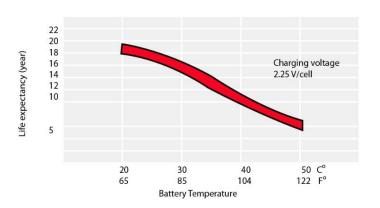
**Cycle Applications:** Limit initial current to less than 300A. Charge until battery voltage (under charge) reaches 2.40 to 2.50 volts at 68°F (20°C). Coefficient - 5mV/°C

**"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.

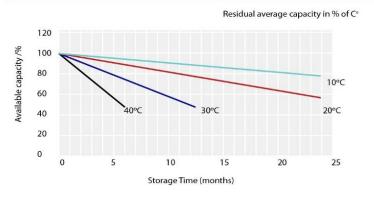
**Note:** Due to the self-discharge characteristics of this type of battery, it is imperative that they be charged within 6 months of storage, otherwise permanent loss of capacity might occur as a result of sulfation.



### EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



## 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.

