Tubular Gel Battery 2 Volt 3000 AH @ 10-hr.rate 2 Volt 3792 AH @ 100-hr.rate Rechargeable Sealed Lead Ac

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



# **PSOPzV3000 2v3000AH**

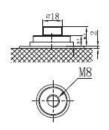


#### **Features**

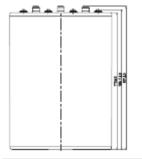
- Tubular plate and Gel electrolyte for increased performance, service life and reliability
- Gel electrolyte and spill proof construction allows safe operation and maintenance free
- Excellent cyclic performance
- Enhanced overcharge endurance
- Excellent recovery from over discharge situations
- · 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

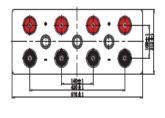
### Terminals (mm)

• T11: Threaded insert 8 mm stud fastener



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





L: 20.7 (576) W: 8.35 (212) H: 30.4 (772) TH: 31.8 (807)

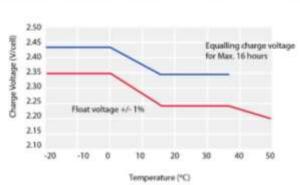
## **Performance Specifications**

Nominal Voltage2 volts
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)
1-hr. (1.60 volts)
Approximate Weight 512 lbs. (232.0 kg)
Internal Resistance (approx.)0.18 milliohms
<b>Max. Discharge Current</b> (approx.)
<b>Shelf Life</b> <2% per month at 68°F (20°C)
Operating Temperature Range
Charge
Discharge4°F (-20°C) to 131°F (55°C)

Case ...... ABS Plastic

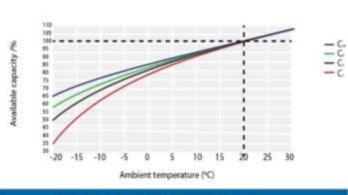
Tolerances are  $\pm$ /- 0.11 in. ( $\pm$ /- 3mm) for all dimensions. All data subject to change without notice.

#### TEMPERATURE EFFECTS IN RELATION TO CHARGE VOLTAGE



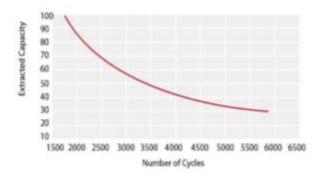
For continuous charging we recommend a voltage of 2.25 V The charging voltage must be compensated to the curve for a continuously different battery ambient temperature

#### TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



#### CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE

Acc. to IEC 896 (25°C/77°F)

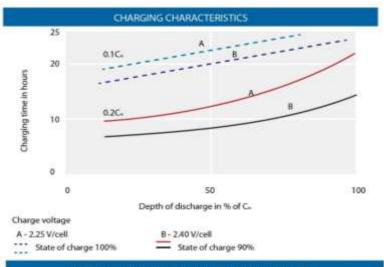


#### Charging

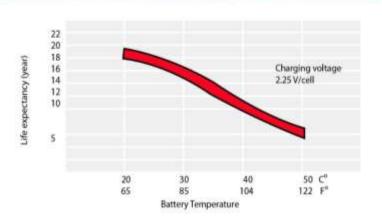
**Cycle Applications:** Limit initial current to less than 750A. Charge until battery voltage (under charge) reaches 2.40 to 2.50 volts at  $68^{\circ}F$  ( $20^{\circ}C$ ). Coefficient -  $5mV/^{\circ}C$ 

**"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.

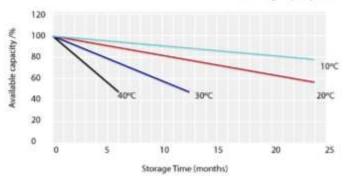


#### EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



#### 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.

#### **Contact Information**



#### **DOMESTIC SALES**

Tel: (07) 3386 1102 Fax: (07) 3102 9913 sales@spb.net.au www.sealedperformance.com.au 1 Ant Road, Yatala

Brisbane QLD 4207

POWER SONIC .

Rechargeable Batteries

© 2015. Power-Sonic Corporation. All rights reserved. All trademarks are the property of their respective owners.

0810 1M