

Tubular Gel Battery

2 Volt 1200AH @ 10-hr. rate

2 Volt 1517 AH @ 100-hr. rate

Rechargeable Sealed Lead Acid Battery

Designed for Cyclic, Standby, and Solar Applications

PSOPzV1200 2v1200AH



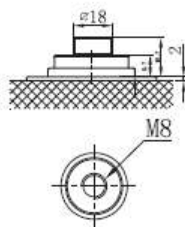
Features

- 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



Performance Specifications

Nominal Voltage	2 volts
Nominal Capacity	
100-hr. (1.80 volts).....	1517.0 AH
20-hr. (1.80 volts).....	1283.0 AH
10-hr. (1.80 volts)	1200.0 AH
5-hr. (1.75 volts)	1035.0 AH
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

Max. Discharge Current (approx.) 9600A (5s)

Shelf Life <2% per month at 68 °F (20 °C)

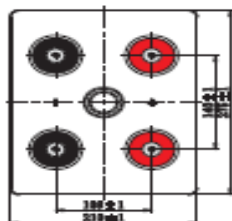
Operating Temperature Range

Charge 32 °F (0 °C) to 104 °F (40 °C)

Discharge -4 °F (-20 °C) to 131 °F (55 °C)

Case ABS Plastic

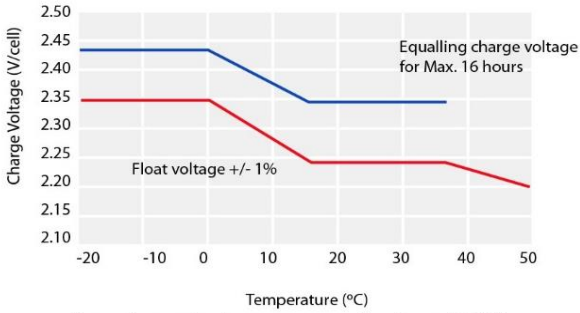
Physical Dimensions: in (mm)



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

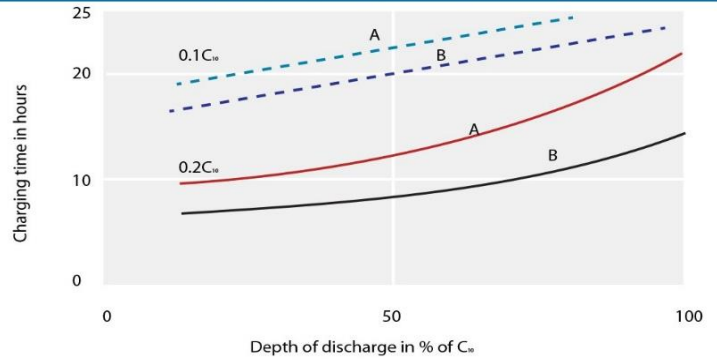
Tolerances are +/- 0.11 in. (+/- 3mm) for all dimensions. All data subject to change without notice.

TEMPERATURE EFFECTS IN RELATION TO CHARGE VOLTAGE



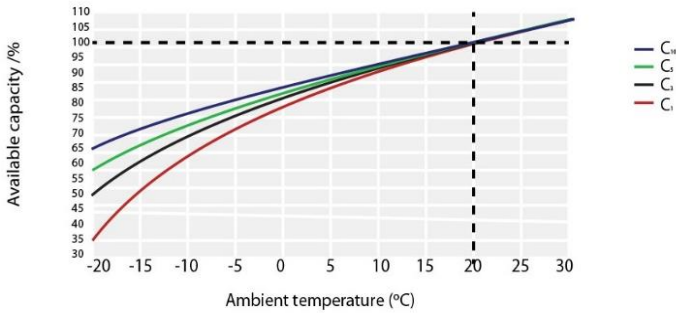
For continuous charging we recommend a voltage of 2.25 V
The charging voltage must be compensated to the curve for a continuously different battery ambient temperature

CHARGING CHARACTERISTICS

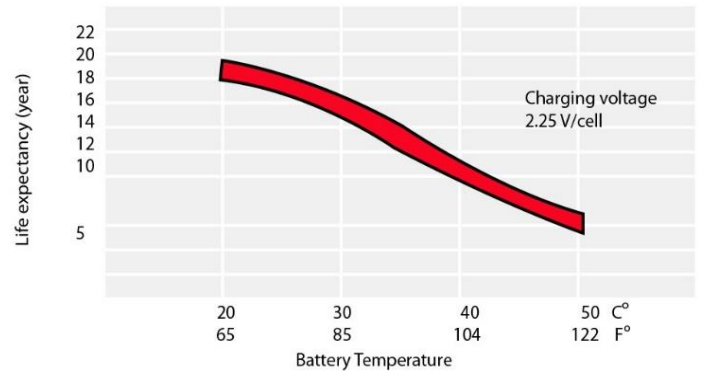


Charge voltage
A - 2.25 V/cell
B - 2.40 V/cell
--- State of charge 100%
— State of charge 90%

TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY

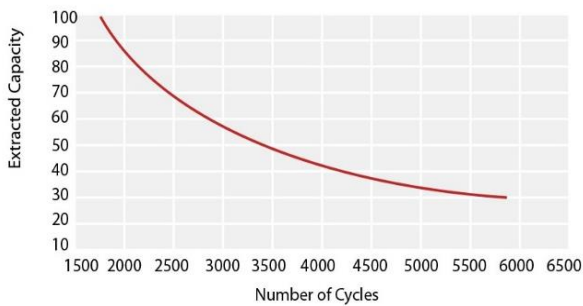


EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE

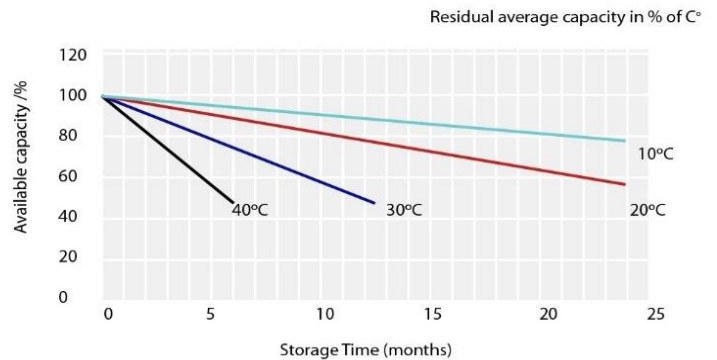


CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE

Acc. to IEC 896 (25°C/77°F)



GENERAL RELATION OF CAPACITY VS STORAGE TIME



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.

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

