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

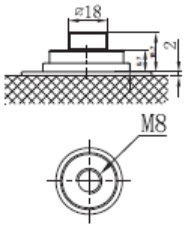
PSOPzV1200
2v1200AH

Features

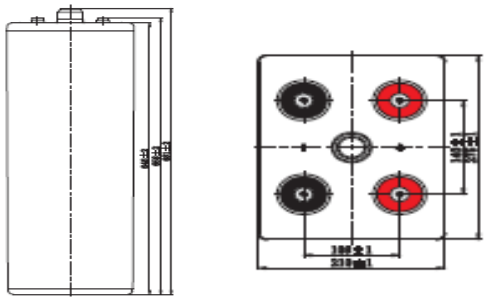
- Tubular plate and Gel electrolyte for increased performance, service life and reliability
- Gel electrolyte and spill proof construction allows safe operation and maintenance free
- Excellent cyclic performance
- Enhanced overcharge endurance
- Excellent recovery from over discharge situations
- Perfect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



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.

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)

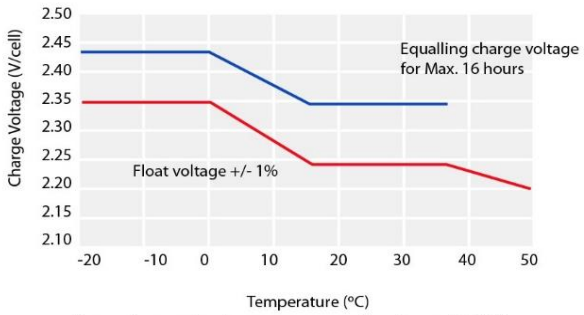
Operating Temperature Range

Charge ..... 32°F (0°C) to 104°F (40°C)

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

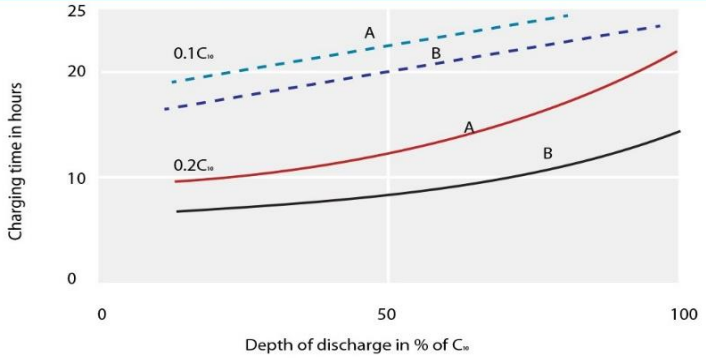
Case ..... ABS Plastic

TEMPERATURE EFFECTS IN RELATION TO CHARGE VOLTAGE



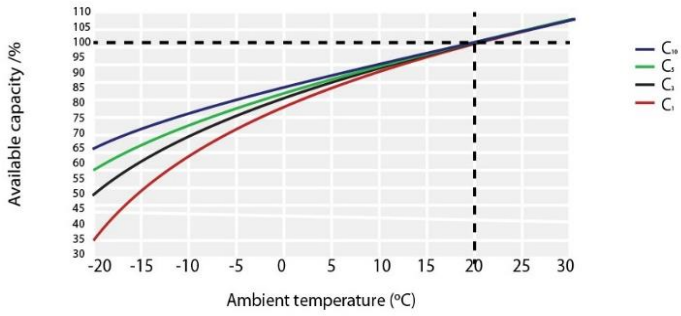
For continuous charging we recommend a voltage of 2.25 V
The charging voltage must be compensated to the curve for
a continuously different battery ambient temperature

CHARGING CHARACTERISTICS

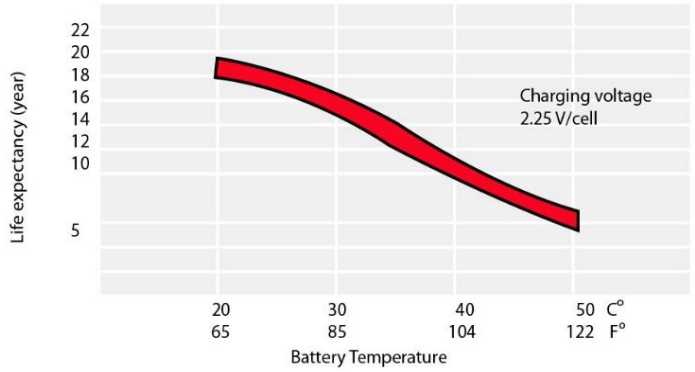


Charge voltage
A - 2.25 V/cell
State of charge 100%
B - 2.40 V/cell
State of charge 90%

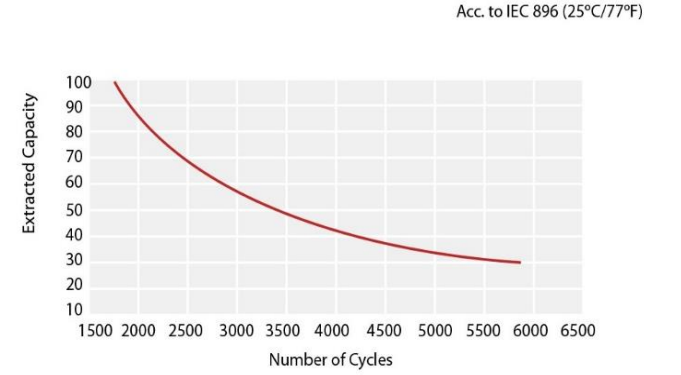
TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



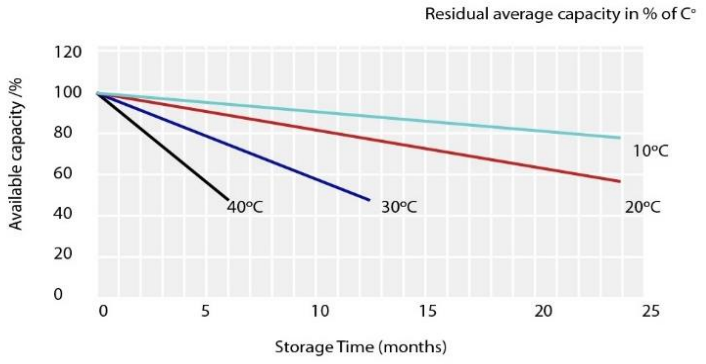
EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



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

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