

**PDC-122500 12 Volt 268.0 AH @ 20-hr. rate**  
**250.0 AH @ 10-hr. rate**

**Rechargeable Sealed Lead Acid Battery**  
**PDC SERIES AGM DEEP CYCLE**



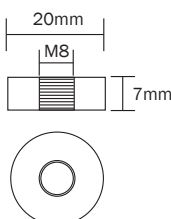
## Features

- Absorbent Glass Mat (AGM) technology for superior performance
- Valve regulated, spill proof construction allows safe operation in any position
- Oversize negative plates and a specialized paste formulation provide true deep cycle performance.
- Special additives in the paste ensure superior performance in deep discharge situations.
- Power/volume ratio yielding unrivaled energy density
- Rugged impact resistant ABS case and cover (UL94-HB)
- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified
- U.L. recognized under file number MH 20845

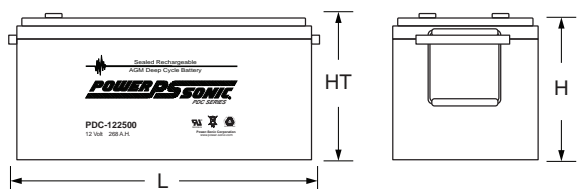
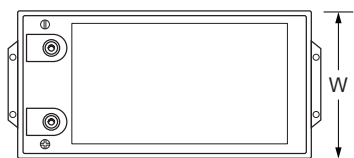
## Terminals

(mm)

- T11: Threaded insert w. 8 mm stud fastener



## Physical Dimensions: In (mm)



**L: 20.55 (522) W: 10.55 (268) H: 8.66 (220) HT: 8.90 (226)**

Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

## Performance Specifications

**Nominal Voltage** ..... 12 volts (6 cells)

### Nominal Capacity

20-hr.	(13.4A to 10.50 volts)	268.0 AH
10-hr.	(25.0A to 10.50 volts)	250.0 AH
8-hr.	(30.6A to 10.50 volts)	244.8 AH
5-hr.	(66.3A to 10.20 volts)	219.5 AH
1-hr.	(161.5A to 9.00 volts)	161.5 AH

**Approximate Weight** ..... 160.9 lbs. (73.0 kg)

**Energy Density** (20-hr. rate) ..... 1.71 W-h/in<sup>3</sup> (104.53 W-h/l)

**Specific Energy** (20-hr. rate) ..... 19.99 W-h/lb (44.07 W-h/kg)

**Internal Resistance** (approx.) ..... 2.5 milliohms

**Max Discharge Current** (7 Min.) ..... 804 amperes

**Max Short-Duration Discharge Current** (10 Sec.) ..... 2680 amperes

**Shelf Life** (% of nominal capacity at 68° F (20° C))

1 Month	97%
3 Months	91%
6 Months	83%

### Operating Temperature Range

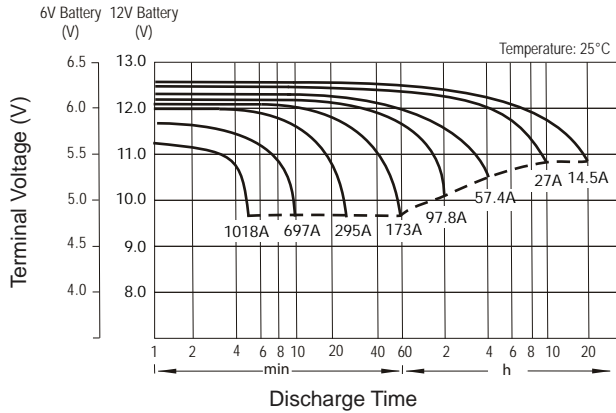
Charge.. ..... -4° F (-20° C) to 122° F (50° C)

Discharge..... -40° F (-40° C) to 140° F (60° C)

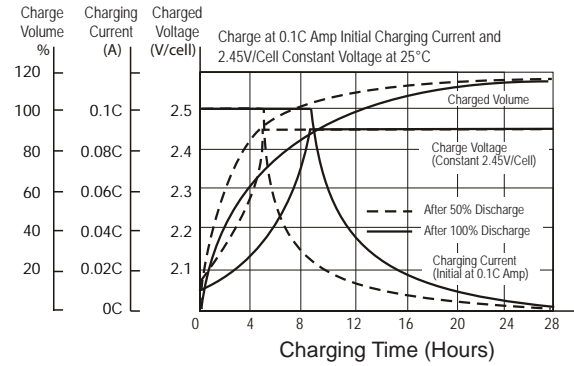
**Case** ..... ABS Plastic

**Power-Sonic Chargers** ..... PSC-1210000A-C

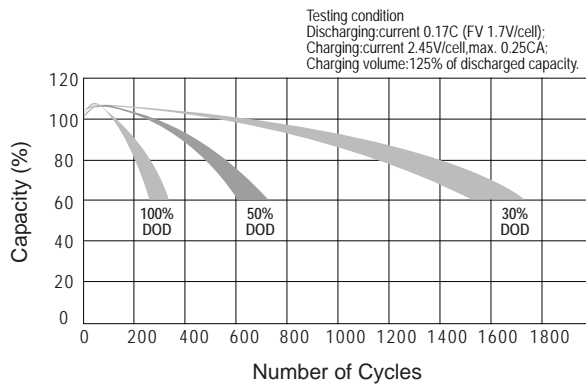
## Discharge Characteristics



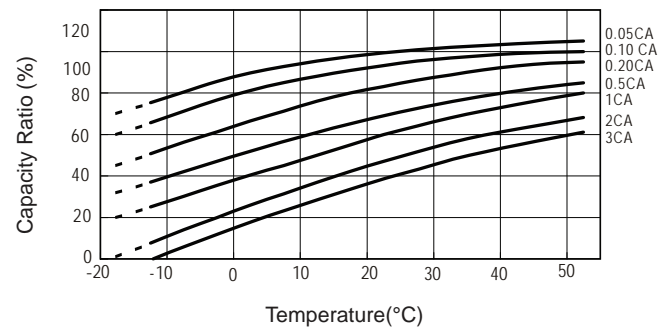
## Charging Characteristics (Cycle Use)



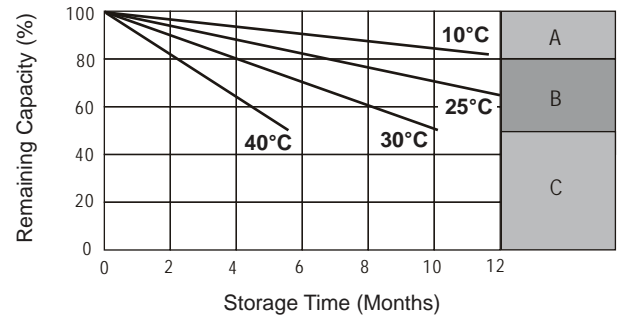
## Cycle Life in Relation to Depth of Discharge



## Temperature Effects in Relation to Battery Capacity



## Self Discharge Characteristics



- A** No supplementary charge required  
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:  
1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.  
2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.  
3. Charged for 8-10 hours at limited current 0.05CA.
- C** Supplementary charge may often fail to recover the capacity.  
The battery should never be left standing till this is reached

## Charging

**Cycle Applications:** Limit initial current to 80.4A. Charge until battery voltage (under charge) reaches 14.4 to 14.7 volts at 68°F (20°C). Hold at 14.4 to 14.7 volts until current drops to under 2.68A. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

**"Float" or "Stand-By" Service:** Hold battery across constant voltage source of 13.5 to 13.8 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](http://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: +1-619-661-2020  
Fax: +1-619-661-3650  
[national-sales@power-sonic.com](mailto:national-sales@power-sonic.com)

### CUSTOMER SERVICE

Tel: +1-619-661-2030  
Fax: +1-619-661-3648  
[customer-service@power-sonic.com](mailto:customer-service@power-sonic.com)

### TECHNICAL SUPPORT

Tel: +1-619-661-2020  
Fax: +1-619-661-3648  
[support@power-sonic.com](mailto:support@power-sonic.com)

### INTERNATIONAL SALES

Tel: +1-650-364-5001  
Fax: +1-650-366-3662  
[international-sales@power-sonic.com](mailto:international-sales@power-sonic.com)