

**PDC-12600** 12 Volt 59.0 AH @ 20-hr. rate  
55.0 AH @ 10-hr. rate

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



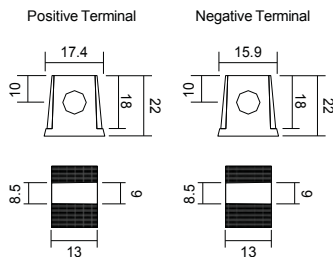
## Features

- 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

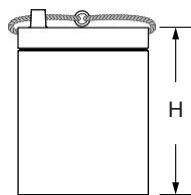
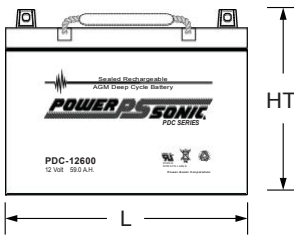
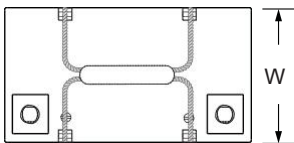
## Terminals

(mm)

- U: Universal terminals: Heavy-duty posts with 'nut & bolt' fasteners



## Physical Dimensions: in (mm)



L: 8.98 (228) W: 5.39 (137) H: 8.27 (210) HT: 9.06 (230)

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. (2.95A to 10.50 volts) .....	59.0 AH
10-hr. (5.50A to 10.50 volts) .....	55.0 AH
8-hr. (6.61A to 10.50 volts) .....	52.9 AH
5-hr. (9.65A to 10.20 volts) .....	48.2 AH
1-hr. (35.5A to 9.00 volts) .....	35.5 AH
15-min. (108.6A to 9.00 volts).....	27.2AH

**Approximate Weight** ..... 39.0 lbs. (17.7 kg)

**Energy Density** (20-hr. rate) ..... 1.77 W-h/in<sup>3</sup> (107.83 W-h/l)

**Specific Energy** (20-hr. rate) ..... 18.15 W-h/lb (40.02 W-h/kg)

**Internal Resistance** (approx.) ..... 7.5 milliohms

**Max Discharge Current** (7 Min.) ..... 177.0 amperes

**Max Short-Duration Discharge Current** (10 Sec.)..... 590.0 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)

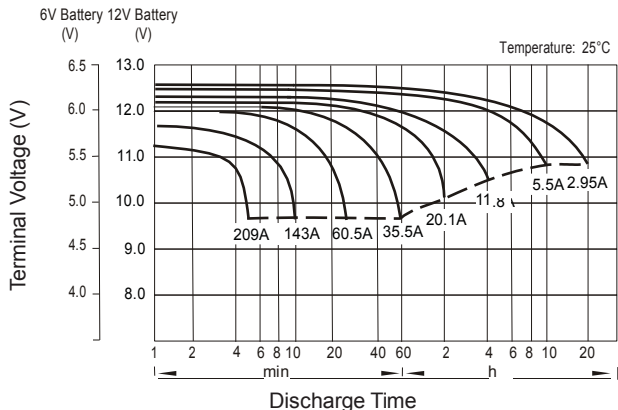
Discharge..... -40 °F (-40 °C) to 140 °F (60 °C)

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

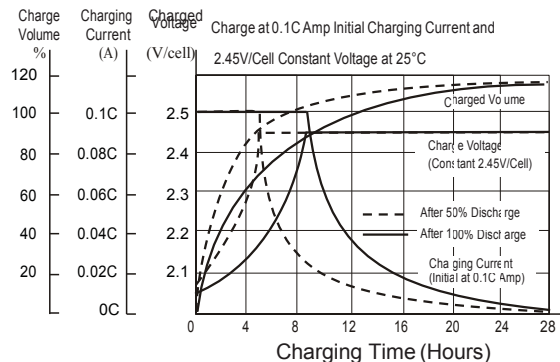
**Power-Sonic Chargers** ..... PSC-1210000A-C\*

\* Only available for use with input voltages of 90-132V 60 Hz

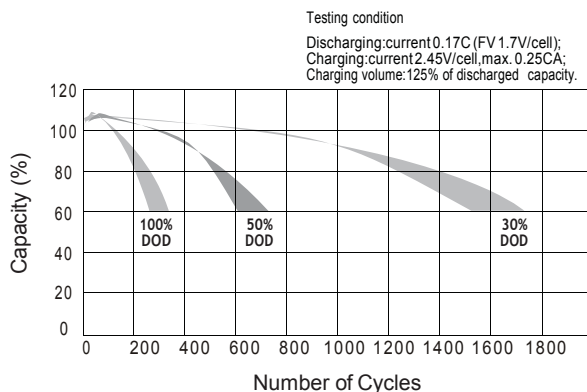
**Discharge Characteristics**



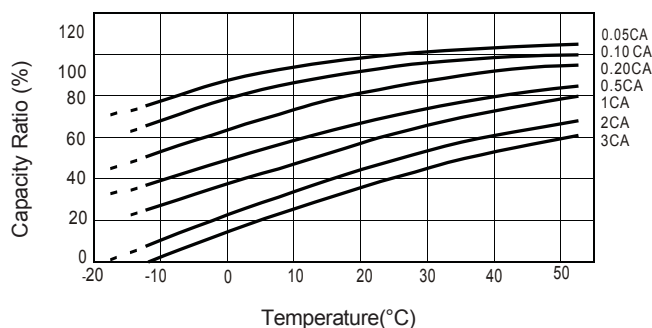
**Charging Characteristics (Cycle Use)**



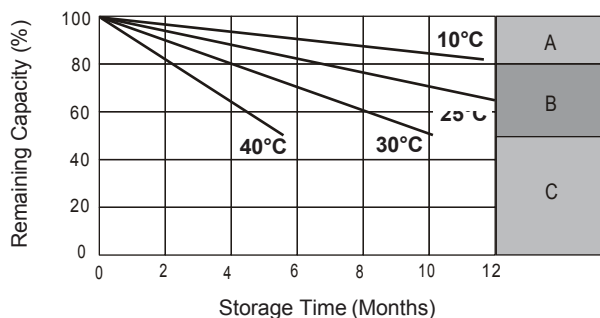
**Cycle Life in Relation to Depth of Discharge**



**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 17.7A. 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 590mA. 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..

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