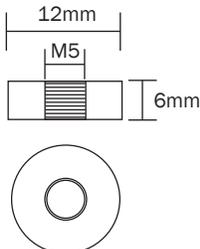




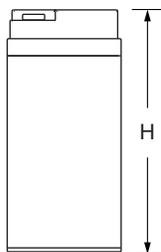
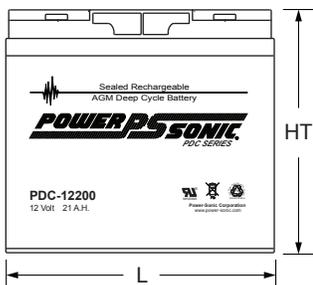
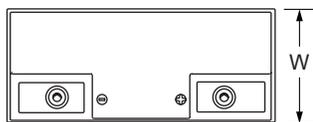
### Terminals

(mm)

- T12: Threaded insert with 5mm stud fastener



### Physical Dimensions: in (mm)



L: 7.14 (182) W: 3.03 (77) H: 6.44 (164) HT: 6.56 (167)

Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions.

### 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

### Performance Specifications

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

#### Nominal Capacity

20-hr. (1.05mA to 10.50 volts).....	21.0 AH
10-hr. (2.0A to 10.50 volts) .....	20.0 AH
8-hr. (2.40A to 10.50 volts) .....	19.2 AH
5-hr. (3.51A to 10.20 volts) .....	17.5 AH
1-hr. (12.9A to 9.00 volts) .....	12.9 AH
15-min.(39.5A to 9.00 volts).....	9.9 AH

**Approximate Weight** ..... 15.0 lbs. (6.9 kg)

**Energy Density (20-hr. rate)**..... 1.72 W-h/in<sup>3</sup> (105.12 W-h/l)

**Specific Energy (20-hr. rate)**..... 16.49 W-h/lb (36.36 W-h/kg)

**Internal Resistance (approx.)**.....8.0 milliohms

**Max Discharge Current (7 Min.)**.....60 amperes

**Max Short-Duration Discharge Cur. (10 Sec.)** ...200 amperes

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

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

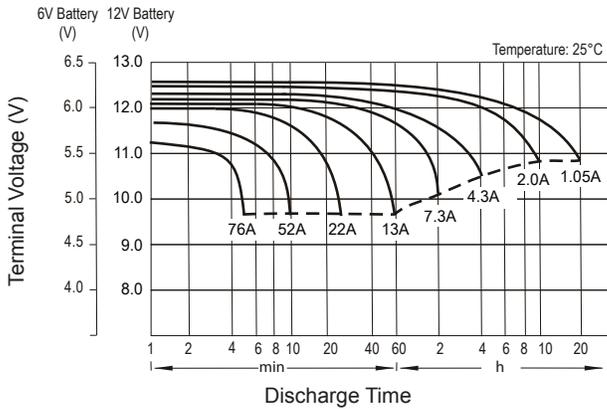
#### Operating Temperature Range

Charge.....	-4°F (-20°C) to 122°F (50°C)
Discharge .....	-40°F (-40°C) to 140°F (60°C)

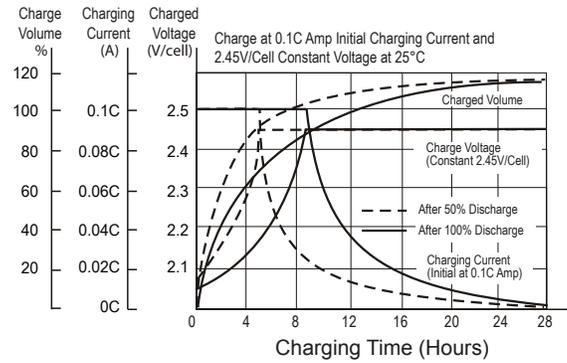
**Case**..... ABS Plastic

**Power-Sonic Chargers** ..... PSC-124000A-C

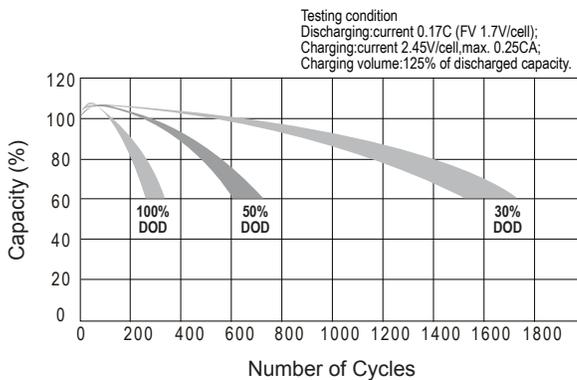
### Discharge Characteristics



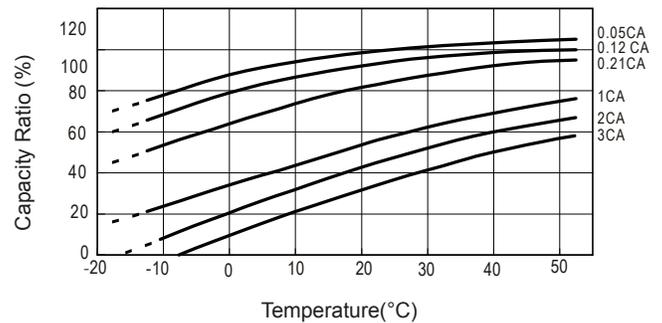
### Charging Characteristics (Cycle Use)



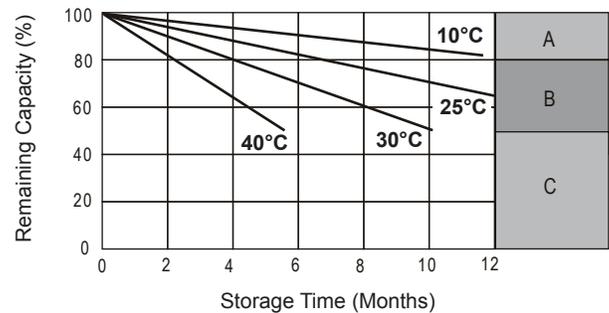
### Cycle Life in Relation to Depth of Discharge



### 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 6.3A. 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 210mA. 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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