PDC-12800

12 Volt 80.0 AH @ 20-hr. rate 75.0 AH @ 10-hr. rate

Rechargeable Sealed Lead Acid Battery PDC SERIES AGM DEEP CYCLE





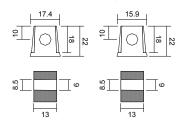
Positive Terminal



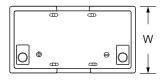
Negative Terminal

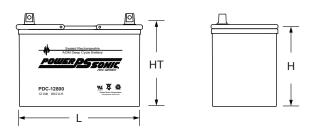
# Terminals (mm)

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



# **Physical Dimensions: in (mm)**





#### L: 10.24 (260) W: 6.61 (168) 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.

# **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

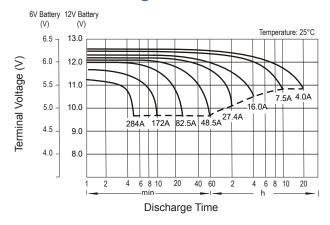
# **Performance Specifications**

Nominal Voltage		
Nominal Capacity		
20-hr.	(4.0A to 10.50 volts)	80.0 AH
10-hr.	(7.50A to 10.50 volts)	75.0 AH
8-hr.	(9.17A to 10.50 volts)	73.4 AH
5-hr.	(13.2A to 10.20 volts)	65.8 AH
1-hr.	(48.5A to 9.00 volts)	48.5 AH
15-min	. (148.1A to 9.00 volts)	37.0 AH
Approximate Weight 50.0 lbs. (22.		50.0 lbs. (22.7 kg)
Energy Density (20-hr. rate)		1.74 W-h/in3 (106.09 W-h/l)
<b>Specific Energy</b> (20-hr. rate)		
Internal Resistance (approx.)		6.6 milliohms
Max Discharge Current (7 Min.)		24.0 amperes
Max Shor	t-Duration Discharge Co	<b>urrent</b> (10 Sec.) 800.0 amperes
Shelf Life	(% of nominal capacity at	68°F (20°C))
1 Month		
3 Months		91%
6 Months		83%
Operating	g Temperature Range	
Charge		4°F (-20°C) to 122°F (50°C)
Discharge40°F (-40°C) to 140°F (60°		
Case		

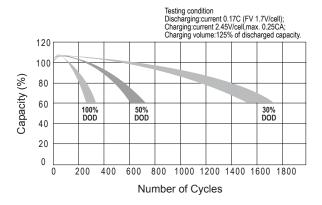
Power-Sonic Chargers ...... PSC-1210000A-C



#### **Discharge Characteristics**



# Cycle Life in Relation to Depth of Discharge



# **Charging**

**Cycle Applications:** Limit initial current to 2.4A. 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 800mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

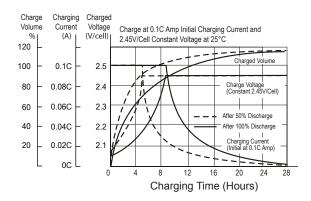
**"Float" or "Stand-By" Service:** Hold battery across constant voltage source of 13.5 to 13.8 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

**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.

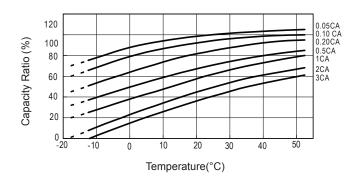
# **Chargers**

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.

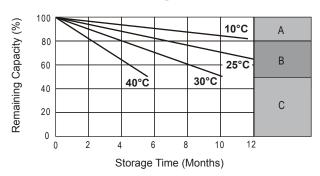
# **Charging Characteristics (Cycle Use)**



### **Temperature Effects in Relation to Battery Capacity**



### **Self Discharge Characteristics**



No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required.)

Supplementary charge required before use. Optional charging way as below:

1. Charged for above 3 days at limited current 0.25CA and constant volatge 2.25V/cell.

2. Charged for above 20hours at limited current 0.25CA and constant volatge 2.45V/cell.

3. Charged for 8~10hours at limited current 0.05CA.

Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached

#### **Further Information**

В

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..

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