

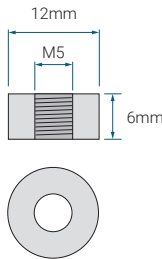


## PDC-12200 12V 20.0 AH @ 20-hr. 12V 18.8 AH @ 10-hr.

Rechargeable Sealed Lead Acid Battery  
PDC – Deep Cycle AGM Series

### TERMINALS (mm)

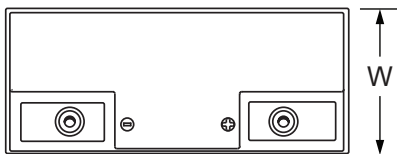
T12: Threaded insert with 5mm stud fastener



Torque: 2.0~3.0 Nxm

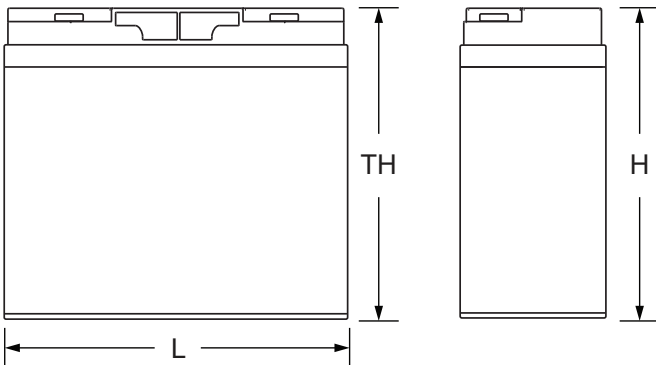
(Contact us for other terminal types)

### DIMENSIONS inch (mm)



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

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



### GLOBAL HEADQUARTERS (USA AND INTERNATIONAL EXCLUDING EMEA)

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### POWER-SONIC EMEA (EMEA – EUROPE, MIDDLE EAST AND AFRICA)

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### FEATURES

- Absorbent Glass Mat (AGM) technology for superior performance
- Valve regulated, maintenance-free spill proof construction
- Power/volume ratio yielding excellent energy density
- Specialized paste formulation with additives enhances deep cycle performance and longevity in deep discharge conditions
- Rugged vibration and impact resistant ABS case and cover (UL 94-HB) Also available to UL 94-V0

### APPROVALS

- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified
- UL 1989 Standard for Standby Batteries
- ISO9001:2015–Quality Management Systems
- IEC 60896-21/22 Stationary Lead-Acid Batteries
- EU 2023/1542 Compliant: European Battery Regulation

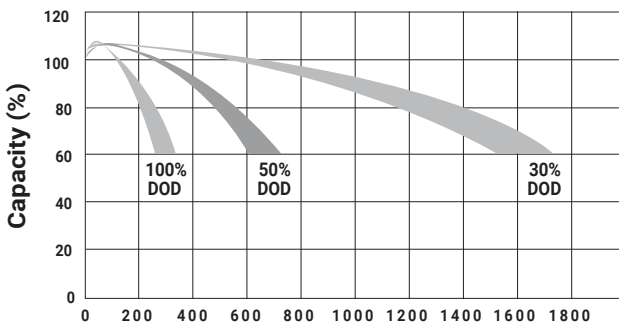
### PERFORMANCE SPECIFICATIONS

<b>Nominal Voltage</b>	12 volts (6 cells)	
<b>Nominal Capacity</b>		
20-hr.	(1.00A to 10.50 volts)	20.00 AH
10-hr.	(1.88A to 10.50 volts)	18.80 AH
5-hr.	(3.46A to 10.20 volts)	17.30 AH
1-hr.	(12.90A to 9.60 volts)	12.90 AH
<b>Approximate Weight</b>	15.0 lbs. (6.9 kg)	
<b>Internal Resistance (approx.)</b>	9 .0 milliohms	
<b>Max Discharge Current (7 Min.)</b>	55 amperes	
<b>Max Short-Duration Discharge Current (10 Sec.)</b>	200 amperes	
<b>Shelf Life (% of nominal capacity at 68°F (20°C))</b>		
1 Month	97%	
3 Month	91%	
6 Month	83%	
<b>Operating Temperature Range</b>		
Charge	32°F (0°C) to 104°F (40°C)	
Discharge	-4°F (-20°C) to 131°F (55°C)	
<b>Case</b>	ABS Plastic Rated to UL 94 H-B	
<b>Power Sonic Chargers</b>	PSC-122000ACX	

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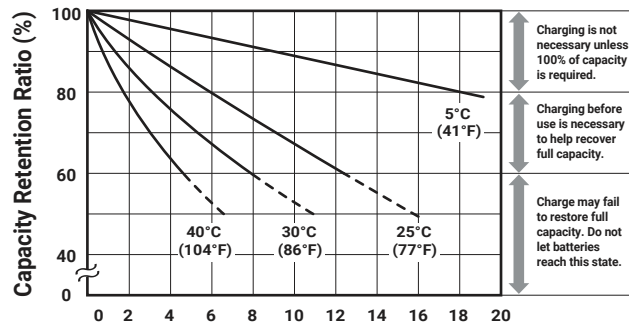
Rechargeable Sealed Lead Acid Battery  
PDC – Deep Cycle AGM Series

### CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



Testing condition  
Discharging current: 0.17C (FV 1.7V/cell);  
Charging current: 2.45V/cell, max. 0.25CA;  
Charging volume: 125% of discharged capacity.

### GENERAL RELATION OF CAPACITY VS. STORAGE TIME



Charging is not necessary unless 100% of capacity is required.

Charging before use is necessary to help recover full capacity.

Charge may fail to restore full capacity. Do not let batteries reach this state.

Standing Period (Months)

## CHARGING

**Cycle Applications:** Apply constant voltage charge at 2.35VPC to 2.45VPC (14.1 to 14.7 volts for 12V Monobloc) at 20°C. The initial charging current should be set at less than C/5 Amps. Switch to float charge when the current falls to a 3% capacity rate to avoid overcharging.

**Stand-By or "Float" Service:** Apply constant voltage charge of 2.25VPC to 2.30VPC (13.5 to 13.8 volts for 12V Monobloc) at 20°C. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

**Temperature Compensation:** Charging voltage for both cyclic and stand-by applications should be regulated in relation to ambient temperature. As temperature rises, charging voltage should be reduced to prevent overcharge and increased as the temperature falls to avoid undercharge.

For further charging information, including temperature compensation factors, see the Power-Sonic Technical Manual.

## APPLICATIONS

- Medical
- Wind
- Golf Carts
- Solar
- Mobility

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## CHARGERS

Power Sonic offers a wide range of chargers suitable for batteries with a variety of capacities.

Please refer to our website for more information on our switch mode and transformer type chargers.

Please contact our technical department for advice if you have difficulty in locating a suitable charger.

## FURTHER INFORMATION

Please refer to our website for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc.

