



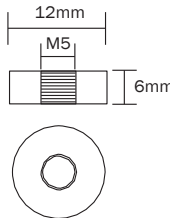
#### Features

- Absorbent Glass Mat (AGM) technology for superior performance
- Valve regulated, spill proof construction allows safe operation in any position
- 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

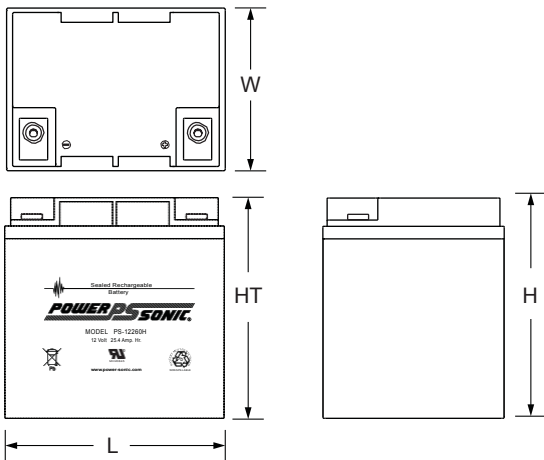
#### Terminals

(mm)

- T12: Threaded insert w. 5 mm stud fastener



#### Physical Dimensions: in (mm)



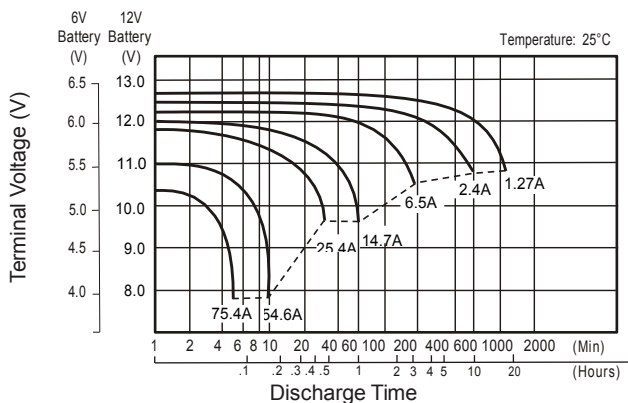
L: 6.50 (165) W: 4.92 (125) H: 6.89 (175) HT: 6.89 (175)

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

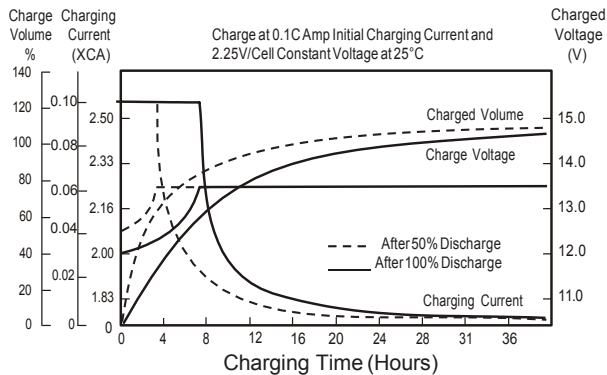
#### Performance Specifications

<b>Nominal Voltage</b> .....	12 volts (6 cells)
<b>Nominal Capacity</b>	
20-hr. (1.27A to 10.50 volts) .....	25.40 AH
10-hr. (2.40A to 10.50 volts) .....	24.00AH
5-hr. (4.16A to 10.20 volts) .....	20.82 AH
1-hr. (14.76A to 9.00 volts) .....	14.76 AH
15-min. (41.1A to 9.00 volts) .....	10.35 AH
<b>Approximate Weight</b> .....	19.2 lbs. (8.7 kg)
<b>Energy Density</b> (20-hr. rate) .....	1.38 W-h/in <sup>3</sup> (84.41 W-h/l)
<b>Specific Energy</b> (20-hr. rate) .....	15.88 W-h/lb (35.0 W-h/kg)
<b>Internal Resistance</b> (approx.) .....	15 milliohms
<b>Max Discharge Current</b> (7 Min.) .....	76.2 amperes
<b>Max Short-Duration Discharge Current</b> (10 Sec.).....	254.0 amperes
<b>Shelf Life</b> (% of nominal capacity at 68 °F (20 °C))	
1 Month .....	92%
3 Months.....	90%
6 Months .....	80%
<b>Operating Temperature Range</b>	
Charge.. .....	-4 °F (-20 °C) to 122 °F (50 °C)
Discharge.....	-40 °F (-40 °C) to 140 °F (60 °C)
<b>Case</b> .....	ABS Plastic (UL 94-HB)
<b>Power-Sonic Chargers</b> .....	PSC-124000A-C

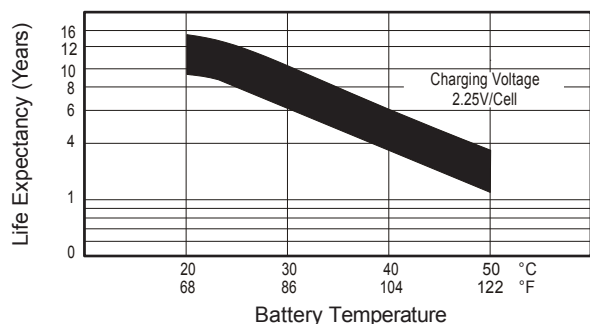
### Discharge Characteristics



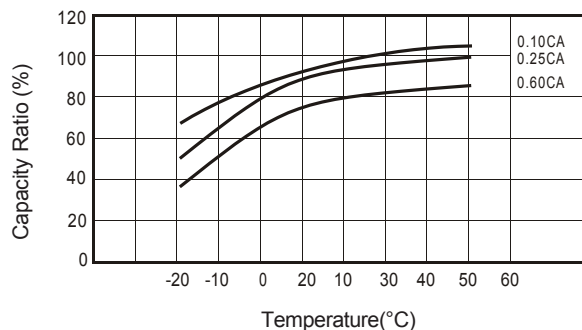
### Charging Characteristics (Cycle Use)



### Temperature Effects in Relation to Battery Capacity



### Temperature Effects in Relation to Battery Capacity



### Charging

**Cycle Applications:** Limit initial current to 7.6A. 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 254mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to “float” voltage.

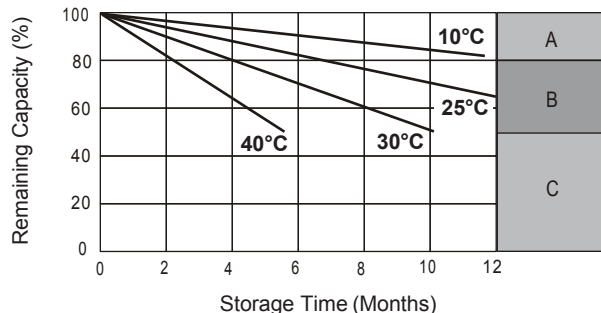
**“Float” or “Stand-By” Service:** Hold battery across constant voltage source of 13.5 to 13.8 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

**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.

### 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

### 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..

