



## PS-12180 12 Volt 18.0 AH

### Rechargeable Sealed Lead Acid Battery



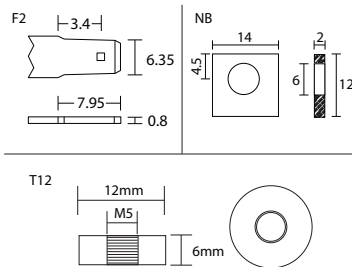
#### Features

- 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

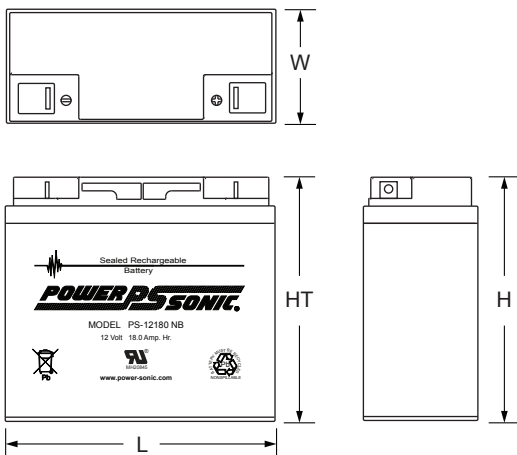
#### Terminals

(mm)

- F2 - Quick disconnect tabs, 0.250" x 0.032" - Mate with AMP. INC FASTON "250" series
- NB2: Tin plated brass post with nut & bolt connectors
- T12 - Threaded insert with 5mm stud



#### Physical Dimensions: in (mm)



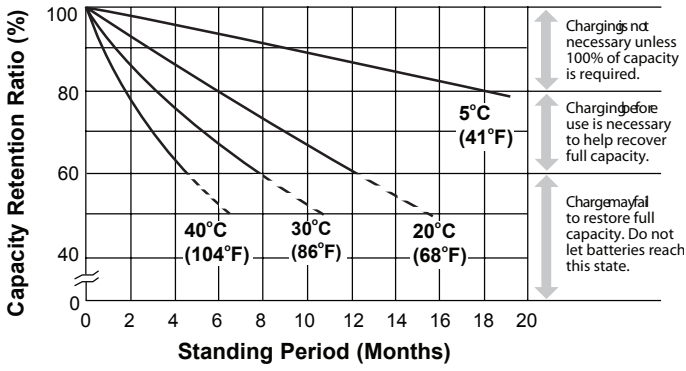
**L: 7.13 (181) W: 3.00 (76) H: 6.59 (167) HT: 6.59 (167)**

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

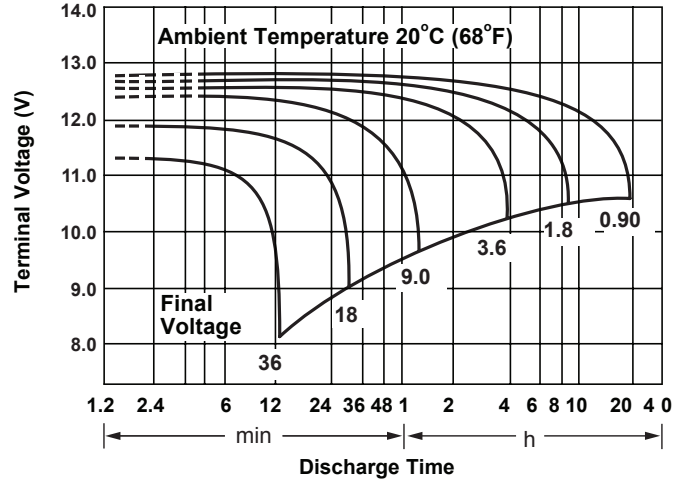
#### Performance Specifications

Nominal Voltage	.....	12 volts (6 cells)
Nominal Capacity		
20-hr. (900mA to 10.50 volts)	.....	18.0 AH
10-hr. (1.7A to 10.50 volts)	.....	17.0 AH
5-hr. (3.2A to 10.20 volts)	.....	16.0 AH
1-hr. (11.1A to 9.00 volts)	.....	11.1 AH
15-min. (34.3A to 9.00 volts)	.....	8.58 AH
Approximate Weight	.....	12.60 lbs. (5.72 kg)
Energy Density (20-hr. rate)	.....	1.53 W-h/in <sup>3</sup> (93.51 W-h/l)
Specific Energy (20-hr. rate)	.....	17.14 W-h/lb (37.79 W-h/kg)
Internal Resistance (approx.)	.....	14 milliohms
Max Discharge Current (7 Min.)	.....	54.0 amperes
Max Short-Duration Discharge Current (10 Sec.)	.....	180.0 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-122000A, 124000A, 122000A-C, 124000A-C

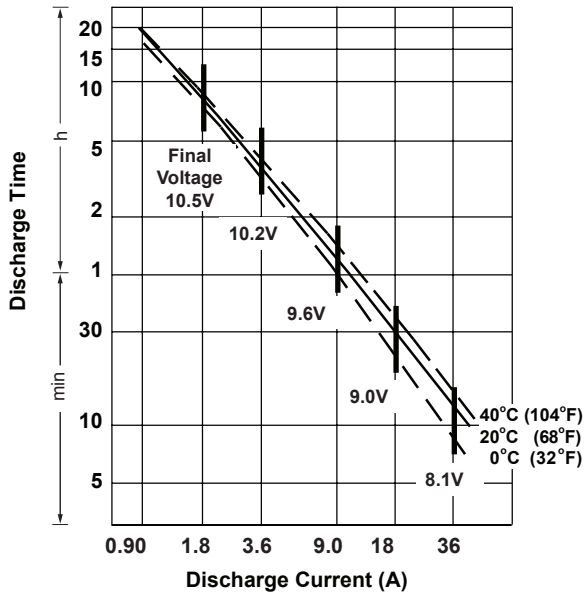
### Shelf Life & Storage



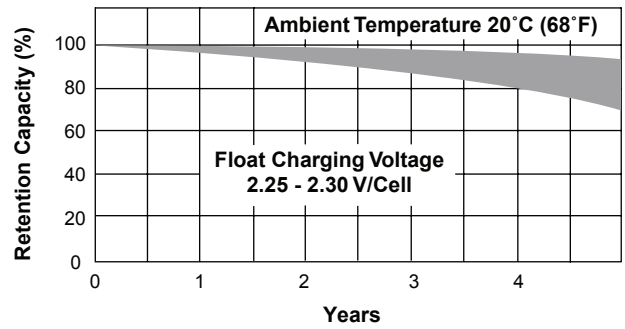
### Discharge Characteristics



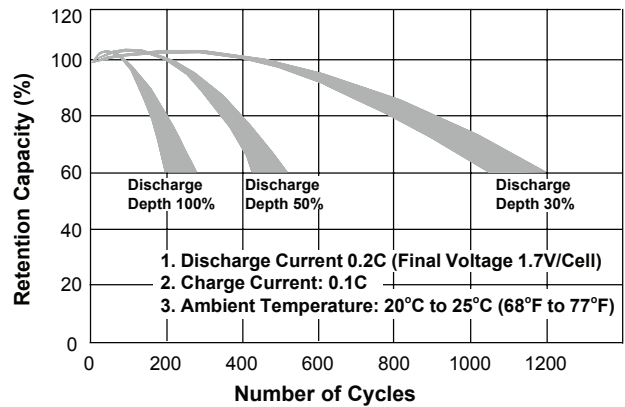
### Discharge Time vs. Discharge Current



### Life Characteristics in Stand-By Use



### Life Characteristics in Cyclic Use



### Charging

**Cycle Applications:** Limit initial current to 5.4A. 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 180mA. 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..

### Contact Information

Distributed by:  
**MICROBATTERY.COM**, 7350 NW 35th Terrace, Miami, Florida 33122  
 Customer Service: 1-866-999-2355 | Phone: 1-305-371-9200 | Fax: 1-305-371-9400  
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