



## PS-12180 12 Volt 18.0 AH

### Rechargeable Sealed Lead Acid Battery

We've Got The Power.™

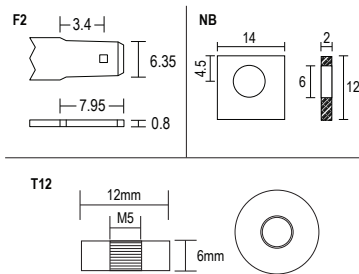


### Features

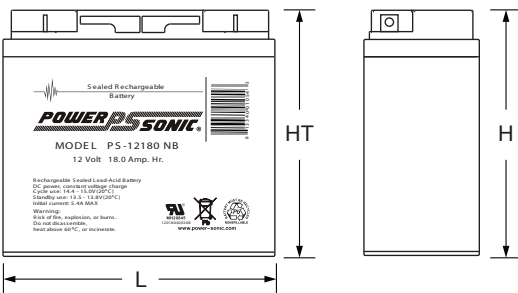
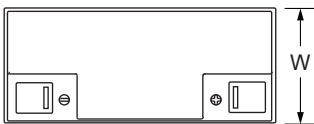
- Absorbent Glass Mat (AGM) technology for superior performance
- Valve regulated, spill proof construction allows safe operation in any position
- Power/volume ratio yielding unrivaled energy density
- Rugged impact resistant ABS case and cover (UL94-HB)
- Approved for transport by air. D.O.T., I.A.T.A., 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%

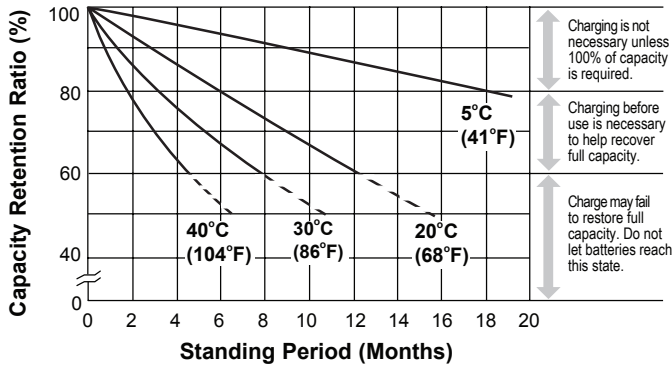
### Operating Temperature Range

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

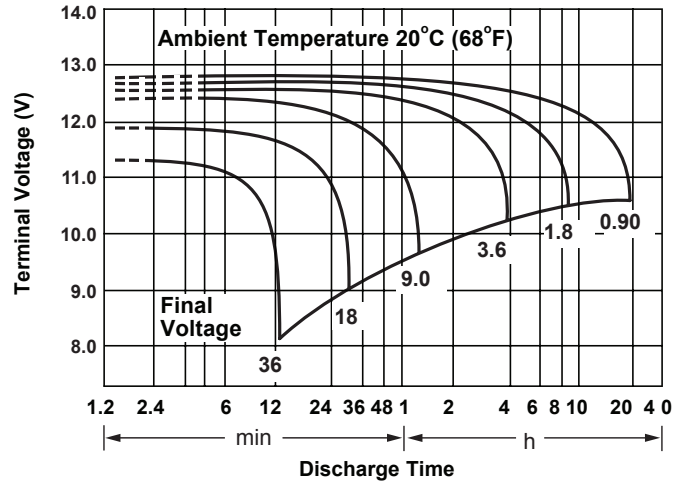
**Case** ..... ABS Plastic

**Power-Sonic Chargers** ..... PSC-122000A, 124000A,  
 ..... 122000A-C, 124000A-C

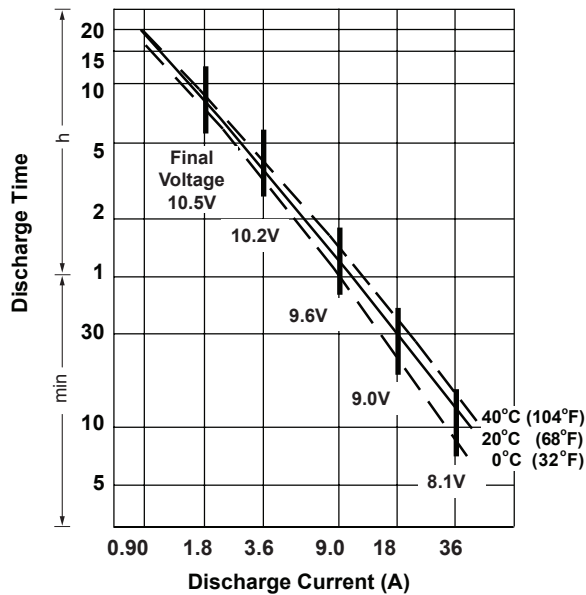
**Shelf Life & Storage**



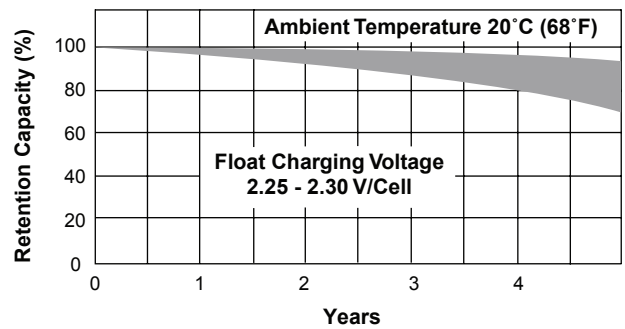
**Discharge Characteristics**



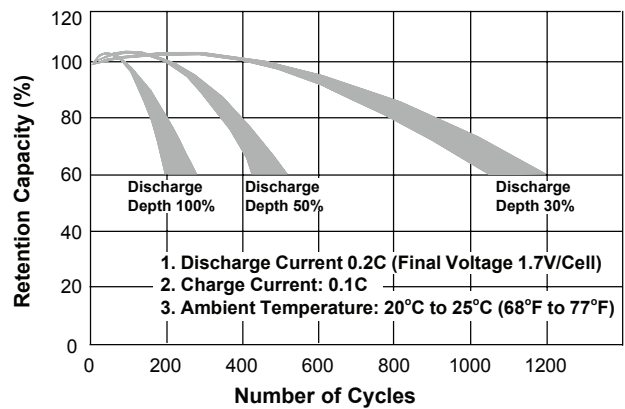
**Discharge Time vs. Discharge Current**



**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**

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## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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