

**PG-12V42 FR**      **12 Volt 45 AH @ 20-hr. rate**  
**42 AH @ 10-hr. rate**

**Rechargeable Sealed Lead Acid Battery**  
**Designed for Cyclic, Standby, and Solar Applications**

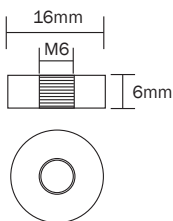


**We've Got The Power.™**

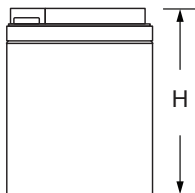
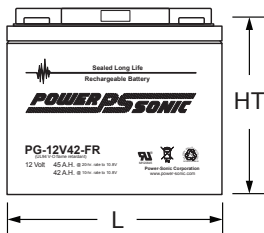
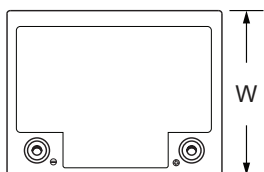


## Terminals (mm)

- T6: Threaded insert w. 6 mm stud fastener



## Physical Dimensions: in (mm)



**L: 7.76 (197) W: 6.50 (165) H: 6.69 (170) HT: 6.14 (156)**

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

## Features

- **Long Service Life** - Thick plate design and efficient gas recombination yield a service life expectancy of up to 10 years in standby mode.
- **Low Internal Resistance** - Superb high-rate discharge characteristics ensure reliable performance in UPS and Telecom applications.
- **Maintenance-Free, Non-Spillable** - Proven VRLA technology guarantees safe operation without maintenance and 'non-restricted article' status for transportation.
- **Low Self-Discharge** - Lead-calcium alloy grids and use of high purity lead account for superior shelf-life characteristics permitting storage for extended periods of time.
- **Designed-In Reliability** - Cutting-edge manufacturing and process control combined with meticulous quality assurance procedures guarantee consistent and dependable performance.

## Performance Specifications

**Nominal Voltage** ..... 12 volts (6 cells)

**Nominal Capacity**

20-hr.	(2.25A to 10.80 volts)	45.0 AH
10-hr.	(4.2A to 10.80 volts)	42.0 AH
8-hr.	(5.2A to 10.50 volts)	41.6 AH
5-hr.	(7.20A to 10.50 volts)	36.0 AH
3-hr.	(10.90A to 10.50 volts)	32.7 AH
1-hr.	(25.2A to 9.60 volts)	25.2 AH

**Approximate Weight** ..... 32 lbs. (14.5 kg)

**Energy Density (10-hr. rate)** ..... 1.49 W-h/in<sup>3</sup> (91.14 W-h/l)

**Specific Energy (10-hr. rate)** ..... 15.75 W-h/lb (34.72 W-h/kg)

**Internal Resistance (approx.)** ..... 8.0 milliohms

**Max Short-Duration Discharge Current (10 Sec.)** ..... 263 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)

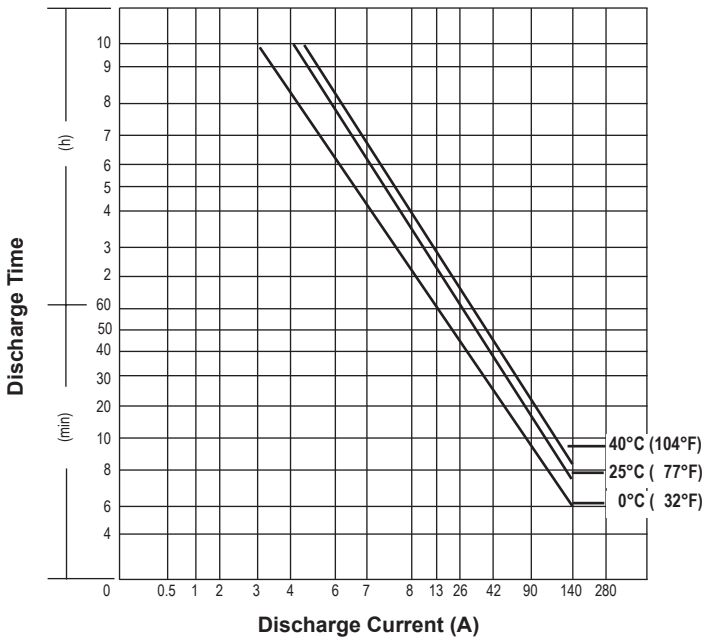
**Case** ..... ABS Plastic (UL94 V-0 flame retardant)

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

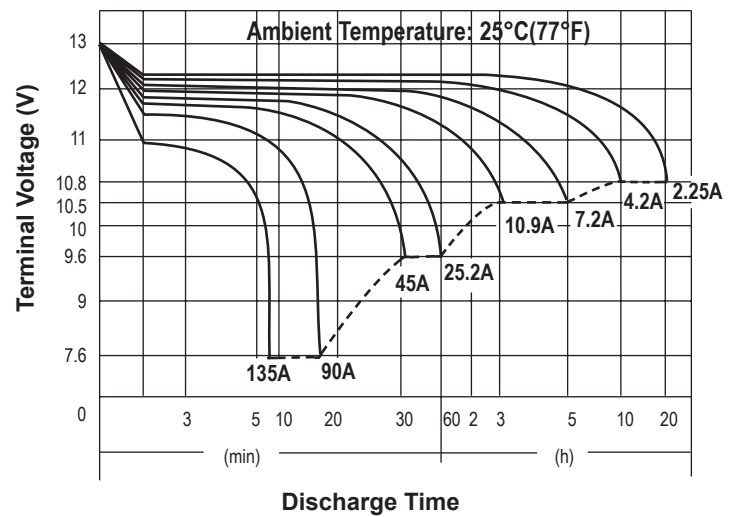
**Constant Current & Power Discharge Ratings**

MODEL	FINAL VOLTAGE	AMPS/WATTS PER CELL @ 25° C													
		5 MIN		10 MIN		15 MIN		20 MIN		30 MIN		45 MIN		60 MIN	
		A	W	A	W	A	W	A	W	A	W	A	W	A	W
<b>PG-12V42 FR</b>	1.80	86	162	74	142	64	125	56.5	112	46	93	33.2	67	27	54
	1.75	99	186	80	150	70	134	62.5	122	49	98	36	73	27	55
	1.67	113	194	92.5	168	81.2	150	67	129	152	100	36.2	75	25.2	56
	1.60	139	210	97	176	84	155	68.9	132	48.6	116	33.6	77	25	57

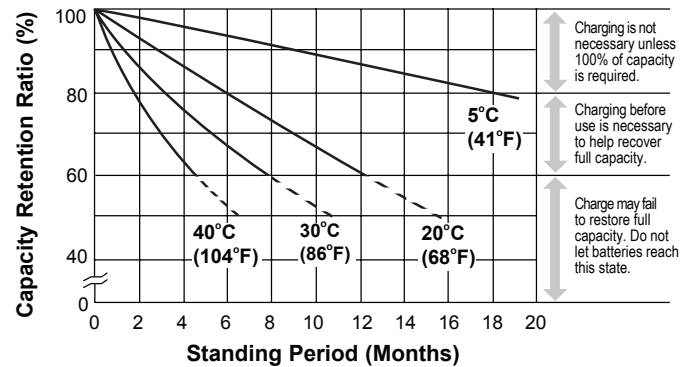
**Discharge Time vs. Discharge Current**



**Discharge Characteristics**



**Shelf Life & Storage**



**Charging**

**Cycle Applications:** Limit initial current to 12.6A. 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 420mA. 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**

[www.power-sonic.com](http://www.power-sonic.com)

**DOMESTIC SALES**  
Tel: +1-619-661-2020  
Fax: +1-619-661-3650  
national-sales@power-sonic.com

**CUSTOMER SERVICE**  
Tel: +1-619-661-2030  
Fax: +1-619-661-3648  
customer-service@power-sonic.com

**TECHNICAL SUPPORT**  
Tel: +1-619-661-2020  
Fax: +1-619-661-3648  
support@power-sonic.com

**INTERNATIONAL SALES**  
Tel: +1-650-364-5001  
Fax: +1-650-366-3662  
international-sales@power-sonic.com

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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.

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

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

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

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