

PG-12V103 FR 12 Volt 111 AH @ 20-hr. rate
103 AH @ 10-hr. rate

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

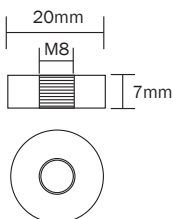


We've Got The Power.™

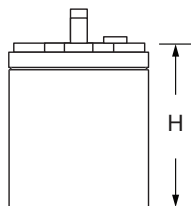
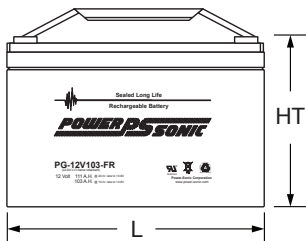
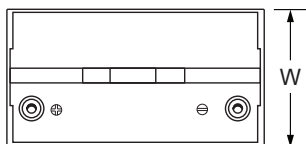


Terminals (mm)

- T11 - THREADED INSERT - 8mm STUD



Physical Dimensions: in (mm)



L: 13.00 (330) W: 6.80 (173) H: 8.35 (212) HT: 8.66 (220)

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, making the battery ideally suited for UPS applications.
- **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.
- **Handle** - Detachable ABS carrying handle.
- **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. (5.55A to 10.80 volts)	111.0 AH
10-hr. (10.3A to 10.80 volts)	103.0 AH
8-hr. (12.4A to 10.50 volts).....	99.2 AH
5-hr. (17.70A to 10.50 volts)	88.5 AH
3-hr. (26.80A to 10.50 volts)	80.4 AH
1-hr. (61.8A to 9.60 volts)	61.8 AH

Approximate Weight 70 lbs. (31.8 kg)

Energy Density (10-hr. rate) 1.67 W-h/in³ (102.18 W-h/l)

Specific Energy (10-hr. rate) 17.66 W-h/lb (38.93 W-h/kg)

Internal Resistance (approx.) 4.0 milliohms

Max Short-Duration Discharge Current (10 Sec.)..... 650 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)

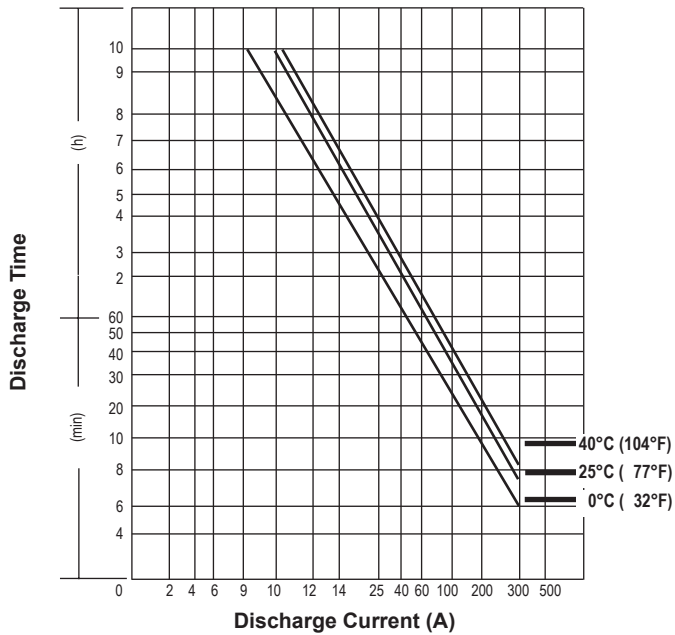
Case ABS Plastic (UL94 V-0 flame retardant)

Power-Sonic Chargers PSC-1210000A-C

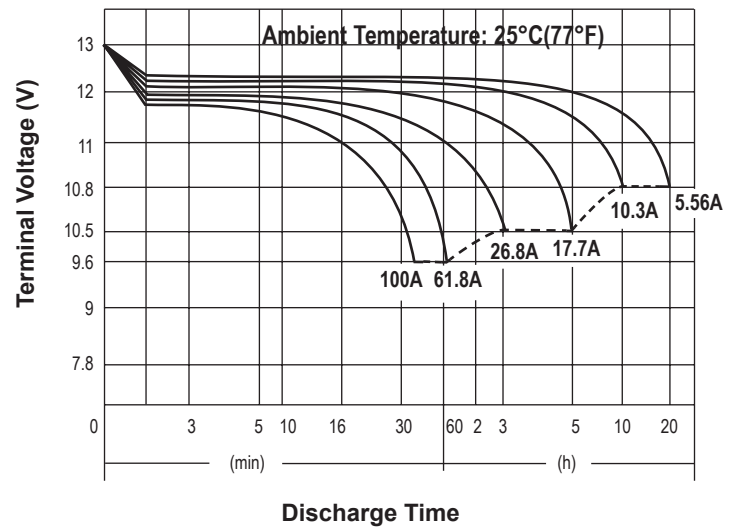
Constant Current & Power Discharge Ratings

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
PG-12V103 FR	1.80	194	632	166	468	144	355	127	296	104	221	75	156	61	123
	1.75	222	638	180	471	156	368	139	301	110	226	81.5	162	61	126
	1.67	253	703	206.6	502	180	386	152	312	116.7	234	80.7	168	61.8	130
	1.60	313	730	228	515	187	396	152	321	118.5	240	82.4	173	61.2	134

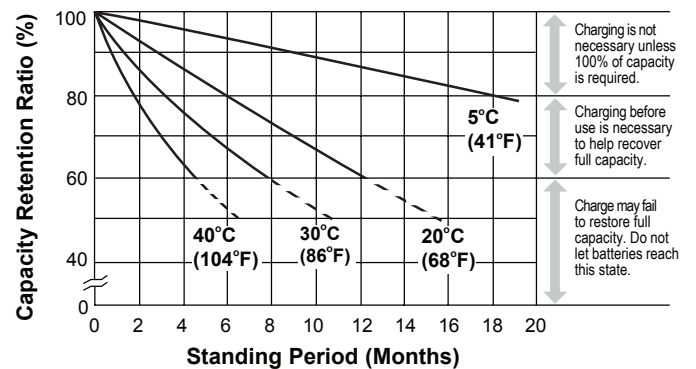
Discharge Time vs. Discharge Current



Discharge Characteristics



Shelf Life & Storage



Charging

Cycle Applications: Limit initial current to 25.0A. 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 1.03A. 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 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

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