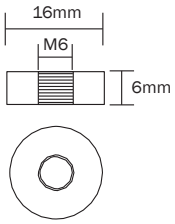
PG-12V75T FR

12 Volt 80 AH @ 20-hr. rate
75 AH @ 10-hr. rate

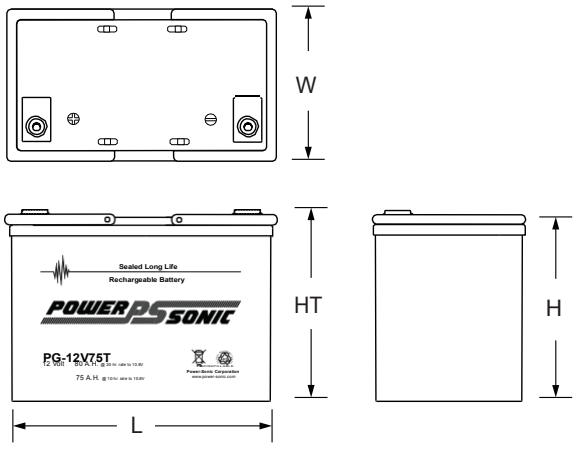
Rechargeable Sealed Lead Acid Battery
Designed for Cyclic, Standby, and Solar Applications

Terminals (mm)

- T6: Threaded insert w. 6 mm stud fastener



Physical Dimensions: in (mm)



L: 10.24 (260) **W:** 6.61 (168) **H:** 8.27 (210) **HT:** 8.51 (216)

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.
- **Handles** - Integral carrying handles.
- **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.	(4.00A to 10.80 volts)	80.0 AH
10-hr.	(7.5A to 10.80 volts)	75.0 AH
8-hr.	(9A to 10.50 volts)	72.0 AH
5-hr.	(12.90A to 10.50 volts)	64.5 AH
3-hr.	(19.50A to 10.50 volts)	58.5 AH
1-hr.	(45.0A to 9.60 volts)	45.0 AH

Approximate Weight ..... 55.0 lbs. (24.95 kg)

Energy Density (10-hr. rate) ..... 1.61 W-h/in3 (98.11 W-h/l)

Specific Energy (10-hr. rate) ..... 16.36 W-h/lb (36.08 W-h/kg)

Internal Resistance (approx.) ..... 6.0 milliohms

Max Short-Duration Discharge Current (10 Sec.)..... 450 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)

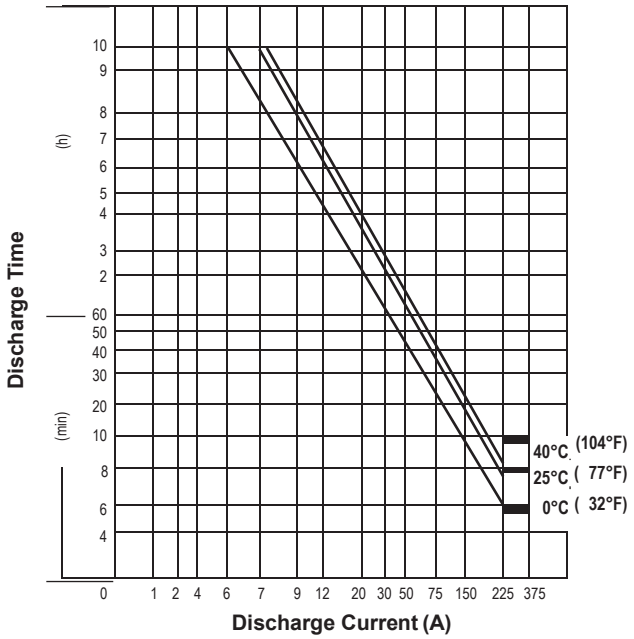
Case ..... ABS Plastic (UL94 V-0 flame retardant)

Power-Sonic Chargers.....PSC-1210000A-C

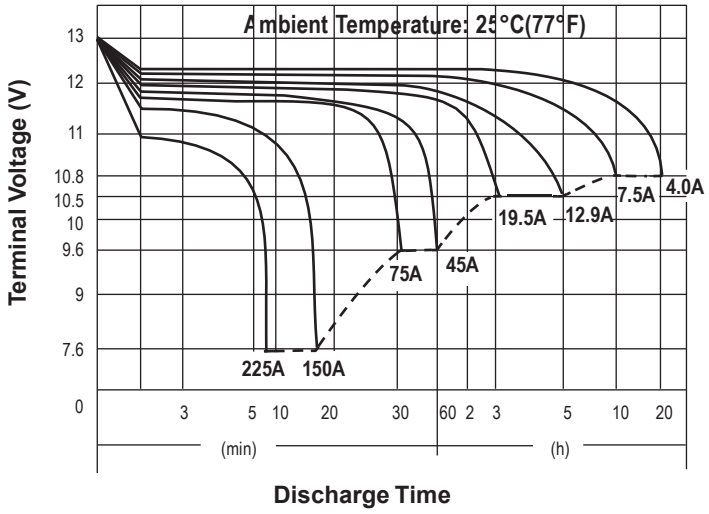
Constant Current & Power Discharge Ratings

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-12V75T FR	1.80	145	458	124	326	108	262	95	212	78	160	56	121	45	98
	1.75	166	470	135	335	118	268	105	218	83	165	61	125	46	100
	1.67	190	514	155	357	135.5	274	114	230	87.5	172	60.5	129	45	104
	1.60	235	528	174	366	140	285	115	236	86.3	178	60	132	44.5	106

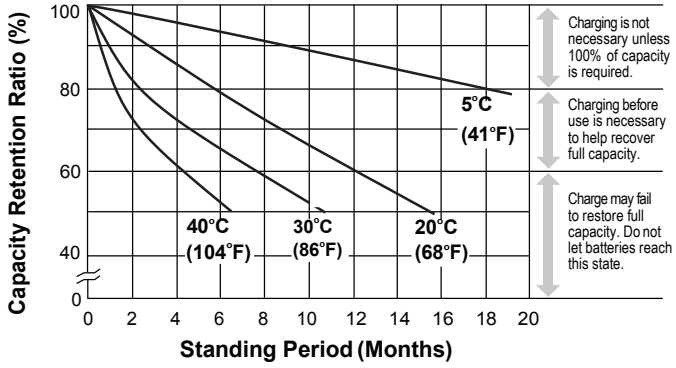
Discharge Time vs. Discharge Current



Discharge Characteristics



Shelf Life & Storage



Charging

Cycle Applications: Limit initial current to 20.0A. 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 750mA. 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..