

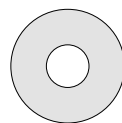
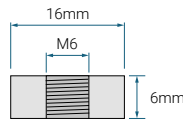


## PG-12V42 FR 12V45.0AH @20-hr. 12V 42.0AH @10-hr.

Rechargeable Sealed Lead Acid Battery  
PG – Long Life Series

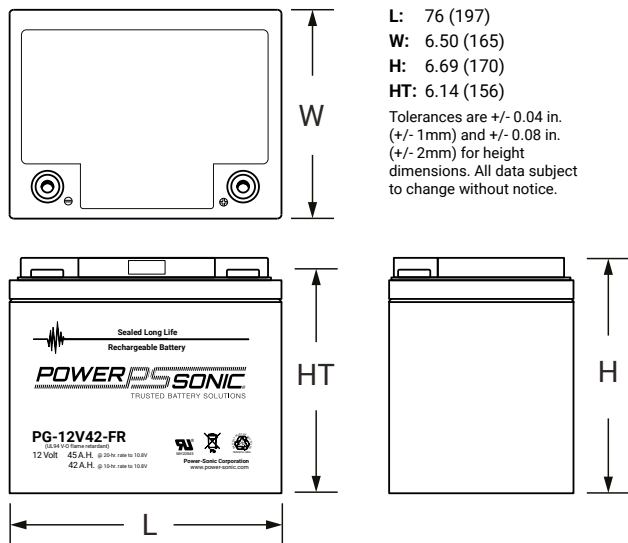
### TERMINALS: (mm)

T6: Threaded insert with 6mm stud fastener



Torque: 3.9~5.4 Nxm

### DIMENSIONS: inch (mm)



**CORPORATE HEADQUARTERS**  
(USA AND INTERNATIONAL EXCLUDING EMEA)  
Power-Sonic Corporation  
7550 Panasonic Way, San Diego,  
California 92154  
T: +1 (619) 661 2020  
F: +1 (619) 661 3650  
E: customer-service@power-sonic.com

**POWER-SONIC EUROPE LIMITED**  
(EMEA – EUROPE, MIDDLE EAST AND AFRICA)  
3 Buckingham Square,  
Hurricane Way, Wickford,  
Essex SS11 8YQ  
T: +44 (0)1268 560686  
F: +44 (0)1268 560902  
E: salesEMEA@power-sonic.com

### FEATURES

- Absorbent Glass Mat (AGM) technology for superior performance
- Superb high-rate discharge characteristics ensures reliable performance in UPS and telecom applications
- Proven valve regulated technology that guarantees safe operation without maintenance
- Rugged impact resistant ABS case and cover, flame retardant to UL94:V-0
- Thick plate design and efficient gas recombination yield a service life of 10 – 12 years in standby mode

### APPROVALS

- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified
- U.L recognized
- ISO9001:2015 – Quality management systems

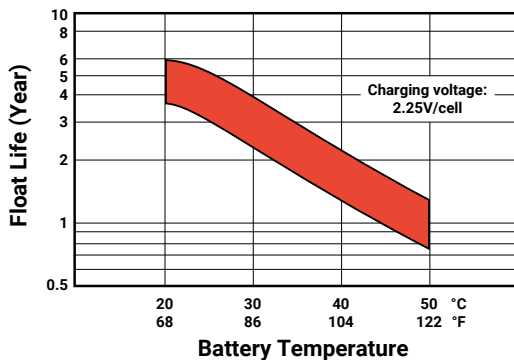
### PERFORMANCE SPECIFICATIONS

<b>Nominal Voltage</b>	12 volts (6 cells)
<b>Nominal Capacity</b>	
20-hr. (2.25A to 10.80 volts)	45.0 AH
10-hr. (4.20A to 10.80 volts)	42.0 AH
5-hr. (7.20A to 10.50 volts)	36.0 AH
1-hr. (25.2A to 9.60 volts)	25.2 AH
<b>Approximate Weight</b>	32.0 lbs. (14.5 kg)
<b>Internal Resistance (approx.)</b>	8.0 milliohms
<b>Max Short-Duration Discharge Current (10 Sec.)</b>	263 amperes
<b>Shelf Life</b> (% of nominal capacity at 68°F (20°C))	
1 Month	97%
3 Month	91%
6 Month	83%
<b>Operating Temperature Range</b>	
Charge	5°F (-15°C) to 122°F (50°C)
Discharge	-4°F (-20°C) to 140°F (60°C)
<b>Case</b>	Flame Retardant ABS Plastic UL94:V-0
<b>Power Sonic Chargers</b>	PSC124000A-C PSC-1210000-PC

## PG-12V42 FR 12V 45.0 AH @ 20-hr. 12V 42.0 AH @ 10-hr.

Rechargeable Sealed Lead Acid Battery  
PS – General Purpose Series

### CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



### CHARGING

**Cycle Applications:** Apply constant voltage charge at 2.35v/c – 2.45v/c (14.1 – 14.7v for 12v Monobloc) at 20°C. Initial charging current should be set at less than 0.25C Amps. Switch to float charge to avoid overcharging.

**“Float” or “Stand-By” Service:** Apply constant voltage charge of 2.25v/c – 2.30v/c (13.5 to 13.8 volts for 12v Monobloc) at 20°C. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

**Temperature Compensation:** Charging Voltage for both Cyclic and Standby applications should be regulated in relation to ambient temperature. As temperature rises charging voltage should be reduced to prevent overcharge and increased as temperature falls to avoid undercharge.

For further charging information including temperature compensation factors, see Power Sonic Technical Manual/ Power Sonic Charger specifications.

### APPLICATIONS

A whole range of CYCLIC applications including but not limited to:

- Fire and Security
- Telecommunications
- Emergency Lighting
- Utility
- Solar
- Wind
- UPS

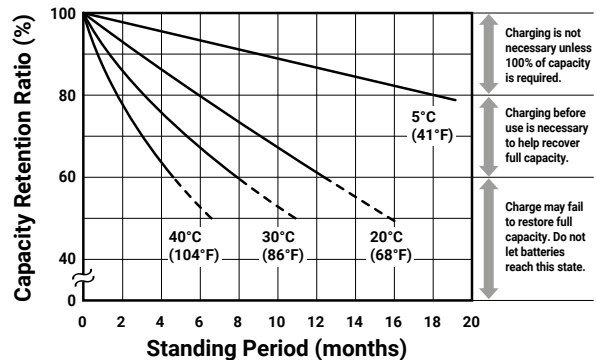
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### GENERAL RELATION OF CAPACITY VS. STORAGE TIME



### CHARGERS

Power Sonic offers a wide range of chargers suitable for batteries with a variety of capacities.

Please refer to our website for more information on our switch mode and transformer type chargers.

Please contact our technical department for advice if you have difficulty in locating a suitable charger.

### 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.

