

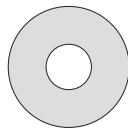
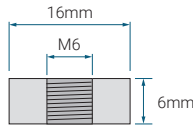


## PG-12V45 12V 42.0 AH @ 20-hr. 12V 40.0 AH @ 10-hr.

Rechargeable Sealed Lead Acid Battery  
PG Series – Long Life

### TERMINALS: (mm)

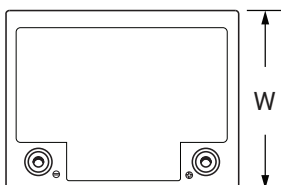
**T6:** Threaded insert with  
6mm stud fastener



Torque: 3.9~5.4 Nxm

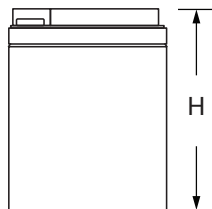
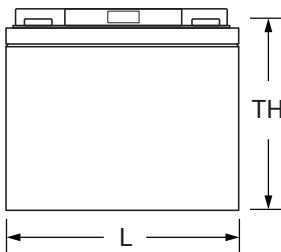
T6 Stocked in EU (Contact us for other terminal types)

### DIMENSIONS: inch (mm)



**L:** 7.76 (197)  
**W:** 6.50 (165)  
**H:** 6.69 (170)  
**TH:** 6.69 (170)

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



L: 7.76 (197) W: 6.50 (165) H: 6.69 (170) TH: 6.69 (170)

### FEATURES

- Absorbent Glass Mat (AGM) technology for superior performance & superb discharge characteristics
- Valve regulated, maintenance-free spill proof construction
- Rugged vibration and impact resistant ABS case
- Power/volume ratio yielding excellent energy
- Thick plate design & gas recombination technology
- Design life up to 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
- UL 1989 Standard for Standby Batteries
- ISO9001:2015–Quality Management Systems
- IEC 60896-21/22 Stationary Lead-Acid Batteries
- EU 2023/1542 Compliant: European Battery Regulation

### PERFORMANCE SPECIFICATIONS

<b>Nominal Voltage</b>	12 volts (6 cells)
<b>Nominal Capacity</b>	
20-hr. (2.10A to 10.80 volts)	42.00 AH
10-hr. (4.00A to 10.82 volts)	40.00 AH
5-hr. (7.00A to 9.60 volts)	35.00 AH
1-hr. (25.50A to 9.60 volts)	25.50 AH
<b>Approximate Weight</b>	31.97 lbs. (14.5 kg)
<b>Internal Resistance (approx.)</b>	9.0 milliohms
<b>Max Short-Duration Discharge Current (5 Sec.)</b>	400 amperes
<b>Shelf Life</b>	
PG series batteries may be stored for up to 6 months at 25 C (77F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
<b>Operating Temperature Range</b>	
Charge	-4°F (-20°C) to 104°F (40°C)
Discharge	5°F (-15°C) to 122°F (50°C)
<b>Case</b>	ABS Plastic Rated to UL 94 H-B
<b>Power Sonic Chargers</b>	PSC-124000ACX

#### GLOBAL HEADQUARTERS (USA AND INTERNATIONAL EXCLUDING EMEA)

The Power-Sonic Corporation  
365 Cabela Dr Suite 300,  
Reno, Nevada 89523  
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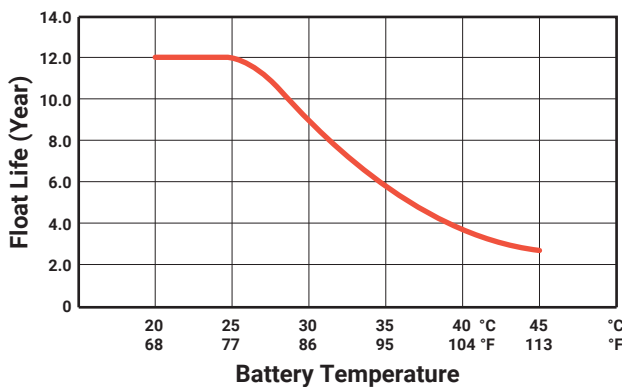
#### POWER-SONIC EMEA (EMEA – EUROPE, MIDDLE EAST AND AFRICA)

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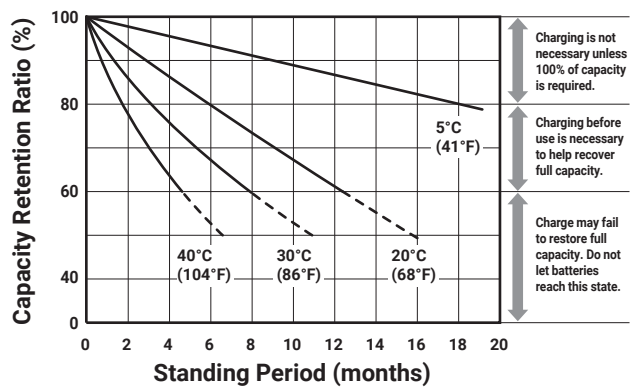
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Rechargeable Sealed Lead Acid Battery  
PG Series – Long Life

### FLOAT LIFE IN YEARS VS. TEMPERATURE



### GENERAL RELATION OF CAPACITY VS. STORAGE TIME



## CHARGING

**Cycle Applications:** Apply constant voltage charge at 2.35VPC to 2.45VPC (14.1 to 14.7 volts for 12V Monobloc) at 20°C. The initial charging current should be set at less than C/5 Amps. Switch to float charge when the current falls to a 3% capacity rate to avoid overcharging.

**Stand-By or "Float" Service:** Apply constant voltage charge of 2.25VPC to 2.30VPC (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 stand-by applications should be regulated in relation to ambient temperature. As temperature rises, charging voltage should be reduced to prevent overcharge and increased as the temperature falls to avoid undercharge.

For further charging information, including temperature compensation factors, see the Power-Sonic Technical Manual.

## APPLICATIONS

A whole range of applications including but not limited to:

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

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## 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.

