## PG-12V42 FR

**Rechargeable Sealed Lead Acid Battery**  
**PG – Long Life Series**

### Nominal Voltage
- 12 volts (6 cells)

### Nominal Capacity
- 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

### Approximate Weight
32.0 lbs. (14.5 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 Month: 91%
- 6 Month: 83%

### Operating Temperature Range
- Charge: 5°F (-15°C) to 122°F (50°C)
- Discharge: -4°F (-20°C) to 140°F (60°C)

### APPROVALS
- U.L recognized
- ISO9001:2015 – Quality management systems

### 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

### TERMINALS: (mm)

<table>
<thead>
<tr>
<th>T6: Threaded insert with 6mm stud fastener</th>
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<tbody>
<tr>
<td>16mm</td>
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<tr>
<td>M6</td>
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<tr>
<td>5mm</td>
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### DIMENSIONS: inch (mm)

| L | 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.

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PG SERIES
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PG-12V42 FR
Rechargeable Sealed Lead Acid Battery
PS – General Purpose Series

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

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.

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