FEATURES

• Absorbent Glass Mat (AGM) technology for superior performance
• Valve regulated, maintenance free spill proof construction
• Power/volume ratio yielding excellent energy density
• Rugged vibration and impact resistant ABS case and cover
• Gas recombination technology
• 5 year design life

APPROVALS

• U.L. recognized
• ISO9001:2015 – Quality management systems

PERFORMANCE SPECIFICATIONS

Nominal Voltage 8 volts (4 cells)
Nominal Capacity 20-hr. (160mA to 7.00 volts) 3.2 AH
10-hr. (300mA to 7.00 volts) 3.0 AH
5-hr. (540mA to 6.80 volts) 2.7 AH
1-hr. (2.0A to 6.00 volts) 2.0 AH
Approximate Weight 1.65 lbs. (0.75 kg)
Internal Resistance (approx.) 38.0 milliohms
Max Short-Duration Discharge Current (10 Sec.) 32.0 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)
Case ABS Plastic
### SHELF LIFE & STORAGE

<table>
<thead>
<tr>
<th>Temperature (°C)</th>
<th>Capacity Retention Ratio (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>40°C (104°F)</td>
<td>0</td>
</tr>
<tr>
<td>30°C (86°F)</td>
<td>50</td>
</tr>
<tr>
<td>20°C (68°F)</td>
<td>80</td>
</tr>
<tr>
<td>5°C (41°F)</td>
<td>100</td>
</tr>
</tbody>
</table>

Charging is not necessary unless 100% of capacity is required.

Charging before use is necessary to help recover full capacity.

### LIFE CHARACTERISTICS IN STAND-BY USE

- **Ambient Temperature 20°C (68°F)**
- **Float Charging Voltage 2.25 - 2.30 V/Cell**

### 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.

### 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 for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc.

### APPLICATIONS

- General purpose
- Medical
- Fire and security

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To ensure safe and efficient operation always refer to the latest edition of our Technical Manual, as published on our website.

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