**Description**

The Backer Battery Heater pre-heats large batteries e.g. in buses, trucks, and trams for optimal performance even during very low temperatures. It is equipped with an internal sensor to monitor the liquid temperature and built-in high tension relay and NTC temperature sensor in order to control the power. The Backer Battery Heater meets all requirements of the Automotive Industry and it has been shake- and vibration tested as well as tested during artic cold, i.e. -40°C.

**Technical specification**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>5kg</td>
</tr>
<tr>
<td>Material</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>Dimension</td>
<td>310x127x127mm</td>
</tr>
<tr>
<td>Voltage</td>
<td>650VDC</td>
</tr>
<tr>
<td>Power</td>
<td>6000W</td>
</tr>
</tbody>
</table>

**Certified in accordance with following tests**

- **ESD**
  - ISO 10605-2001
  - IEC 61000-4-2:2001
- **Dielectric strength**
  - ISO 6489-1:2011
  - ISO 6489-3:2011
- **Chemical resistance**
  - ISO 16750-5:2003
- **Cold test**
  - ISO 16750-4:2010
- **Ice Water / hot air shock test**
  - ISO 16750-4:2010
- **Ice / boiling water shock test**
  - IEC 60068-2-14
- **Salt mist test**
  - Acc to IEC 60068-2-11Ka
  - 168h + 84h + 84h + 168h
- **Vibration and thermal cycling**
  - Acc to IEC 60068-2-64
  - 5g
- **Operating voltage**
  - ISO 16750-2:2006
  - Temperature between -40 and +80°C.
- **Altitude 3000m. Insulation / power. A Tin connection box Testing RT**
- **Ingress protection**
  - IP67, IP6K9K

**BACKER BATTERY HEATER**

- **Ensures ultimate performance of Li-lon batteries even during extreme cold.**
- **Prolongs the life of the battery**