Product Environmental Profile

WISER PLC
Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE) as mentioned in the Directive.

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page
Additional environmental information

The WISER PLC presents the following relevant environmental aspects

**Design**
- New Offer
  - Simplifies connected panels installation by using PLC over electrical network to avoid extra installation of communication cables in the house infrastructure.

**Manufacturing**
- Manufactured at a Schneider Electric production site ISO14001 certified

**Distribution**
- Weight and volume of the packaging optimized, based on the European Union's packaging directive
  - Packaging weight is 23.9 g, consisting of Cardboard (90%), Paper (10%)
  - Packaging recycled materials is 99% of total packaging mass.
  - Product distribution optimised by setting up local distribution centres

**Installation**
- Ref EER31700 does not require any installation operations.

**Use**
- The product does not require special maintenance operations.

**End of life**
- End of life optimized to decrease the amount of waste and allow recovery of the product components and materials
- This product contains PCBA (40g) that should be separated from the stream of waste so as to optimize end-of-life treatment.
- The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page
- Recyclability potential: 25%
  - Based on "ECO' DEEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

Environmental impacts

**Reference life time**
- 10 years

**Product category**
- Passive products - non-continuous operation

**Use scenario**
- Product dissipation is 3 W full load, loading rate is 30% and service uptime percentage is 30%

**Geographical representativeness**
- Europe (80%), Asia Pacific (20%)

**Technological representativeness**
- Connect Electrical Panelboard to the Home ADSL Modem

**Energy model used**

<table>
<thead>
<tr>
<th></th>
<th>Manufacturing</th>
<th>Installation</th>
<th>Use</th>
<th>End of life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy model used</td>
<td>Energy model used: CHINA</td>
<td>Electricity mix; AC; consumption mix, at consumer; 220V; CN</td>
<td>Electricity mix; AC; consumption mix, at consumer; 220V; CN</td>
<td>Electricity mix; AC; consumption mix, at consumer; 220V; CN</td>
</tr>
</tbody>
</table>

**Compulsory indicators**

<table>
<thead>
<tr>
<th>Impact indicators</th>
<th>Unit</th>
<th>Total</th>
<th>Manufacturing</th>
<th>Distribution</th>
<th>Installation</th>
<th>Use</th>
<th>End of Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contribution to mineral resources depletion</td>
<td>kg Sb eq</td>
<td>5.58E-04</td>
<td>5.56E-04</td>
<td>0*</td>
<td>0*</td>
<td>1.17E-06</td>
<td>0*</td>
</tr>
<tr>
<td>Contribution to the soil and water acidification</td>
<td>kg SO₂ eq</td>
<td>2.97E-01</td>
<td>7.34E-03</td>
<td>8.76E-05</td>
<td>0*</td>
<td>2.90E-01</td>
<td>4.68E-05</td>
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<tr>
<td>Contribution to water eutrophication</td>
<td>kg PO₄³- eq</td>
<td>7.83E-02</td>
<td>1.81E-03</td>
<td>2.02E-05</td>
<td>0*</td>
<td>7.65E-02</td>
<td>2.40E-05</td>
</tr>
<tr>
<td>Contribution to global warming</td>
<td>kg CO₂ eq</td>
<td>2.72E+02</td>
<td>5.03E+00</td>
<td>0*</td>
<td>0*</td>
<td>2.67E+02</td>
<td>7.48E-02</td>
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<tr>
<td>Contribution to ozone layer depletion</td>
<td>kg CFC11 eq</td>
<td>2.75E-06</td>
<td>6.18E-07</td>
<td>0*</td>
<td>0*</td>
<td>2.13E-06</td>
<td>2.59E-09</td>
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<tr>
<td>Contribution to photochemical oxidation</td>
<td>kg C₂H₄ eq</td>
<td>3.50E-02</td>
<td>7.41E-04</td>
<td>6.25E-06</td>
<td>0*</td>
<td>3.42E-02</td>
<td>4.05E-06</td>
</tr>
</tbody>
</table>

**Resources use**

<table>
<thead>
<tr>
<th>Impact indicators</th>
<th>Unit</th>
<th>Total</th>
<th>Manufacturing</th>
<th>Distribution</th>
<th>Installation</th>
<th>Use</th>
<th>End of Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net use of freshwater</td>
<td>m³</td>
<td>3.26E-01</td>
<td>2.73E-02</td>
<td>0*</td>
<td>0*</td>
<td>2.98E-01</td>
<td>3.80E-05</td>
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<tr>
<td>Total Primary Energy</td>
<td>MJ</td>
<td>4.43E+03</td>
<td>5.72E+01</td>
<td>0*</td>
<td>0*</td>
<td>4.37E+03</td>
<td>0*</td>
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</table>
Life cycle assessment performed with EIME version EIME v5.5, database version 2016-11.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).
Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

<table>
<thead>
<tr>
<th>Registration N°</th>
<th>SCHN-00254-V01.01-EN</th>
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<tr>
<td>Verifier accreditation N°</td>
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<td>Date of issue</td>
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<td>Drafting rules</td>
<td>PCR-ed3-EN-2015 04 02</td>
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<td>Supplemented by</td>
<td>PSR-0005-ed2-FR-2016 03 29</td>
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<td>Information and reference documents</td>
<td><a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a></td>
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<td>Validity period</td>
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</tbody>
</table>

Independent verification of the declaration and data, in compliance with ISO 14025 : 2010

The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)

The elements of the present PEP cannot be compared with elements from another program.

Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »

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