LED Transformer

Electronic Transformers for low-voltage LED application

Product Description
High frequency, compact size and Long lifetime LED Transformer, operation with 24VDC LED module, LED Strip and other LED application where need 24VDC constant voltage.

Product Features and Benefits
• Optimal performance thanks to the dedicated LED solution
• Long lifetime, 30,000 hours
• Safe operation, SELV compliant, CB
• Safety protections including overload protection and short circuit protection
• Installation friendly, Independent and Class II
• ENEC, CQC, CE, CB certificate

Applications
• Hotel, Partially light the space, Living rooms, Corridors
• Retail & Shopping Mall, Cabinet or shelf lighting
• Restaurant, Enhance the ambience, create the mood
• Decoration, Create space and layers, light sculpture

Quality
We ensure optimum quality regarding:
• System supplier
  As manufactures of lamps and gear, Philips ensures that, from the earliest development stage, optimum LED light source and gear performance is designed
• International supplier
  Philips LED transformer fully comply with SELV standards, IEC 61347-1, IEC 61347-2-13
**Compliances and approvals**

- Safety
- Performance
- RFI < 30 MHz
- RFI > 30 MHz
- Harmonics
- Immunity
- Vibration & bump tests

- Approval marks
- Quality standard
- Environmental standard

IEC61347-1, IEC61347-2-13

EN62384

CISPR15 Ed 7.1

EN 61000-3-2

EN61547

IEC 60068-2-6 Fc

IEC 60068-2-29 Eb

SELV, CB, CE, CQC, ENEC

ISO9001

ISO14001

RoHS compliance

**Dimensions in mm**

<table>
<thead>
<tr>
<th>Type</th>
<th>A1</th>
<th>A2</th>
<th>B1</th>
<th>B2</th>
<th>C1</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED Transformer 60W 24VDC</td>
<td>180</td>
<td>170</td>
<td>52</td>
<td>42</td>
<td>30</td>
</tr>
</tbody>
</table>

**Dimensions in mm**

<table>
<thead>
<tr>
<th>Type</th>
<th>A1</th>
<th>A2</th>
<th>B1</th>
<th>B2</th>
<th>C1</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED Transformer 120W 24VDC</td>
<td>300</td>
<td>290</td>
<td>40</td>
<td>29</td>
<td>30</td>
</tr>
</tbody>
</table>

**Technical data**

<table>
<thead>
<tr>
<th>Type</th>
<th>Voltage (Volt)</th>
<th>Frequency (Hz)</th>
<th>Power factor</th>
<th>Max. output power (Watt)</th>
<th>Max. output current (Amp)</th>
<th>Output voltage (Vol)</th>
<th>Tc (°C)</th>
<th>Ta (°C)</th>
<th>Dimmable</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED Transformer 60W 24VDC</td>
<td>220-240</td>
<td>50/60</td>
<td>0.95</td>
<td>60</td>
<td>2.5</td>
<td>24 VDC</td>
<td>85</td>
<td>-20...50</td>
<td>N</td>
</tr>
<tr>
<td>LED Transformer 120W 24VDC</td>
<td>220-240</td>
<td>50/60</td>
<td>0.95</td>
<td>120</td>
<td>5.0</td>
<td>24 VDC</td>
<td>90</td>
<td>-20...50</td>
<td>N</td>
</tr>
</tbody>
</table>
Inrush current

<table>
<thead>
<tr>
<th>Type</th>
<th>Max quantity of ballasts</th>
<th>Inrush current 1/4 Value at typical mains</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per MCB Type B 16A</td>
<td>13</td>
<td>28A/330us</td>
</tr>
<tr>
<td>LED Transformer 60W 24VDC</td>
<td>12</td>
<td>35A/320us</td>
</tr>
<tr>
<td>LED Transformer 120W 24VDC</td>
<td>12</td>
<td>35A/320us</td>
</tr>
</tbody>
</table>

Conversion table for max. quantities of ballasts on other types of Miniature Circuit Breaker

<table>
<thead>
<tr>
<th>MCB type</th>
<th>Rating</th>
<th>Relative number of ballasts</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>16 A</td>
<td>100% (see table above)</td>
</tr>
<tr>
<td>B</td>
<td>10 A</td>
<td>63%</td>
</tr>
<tr>
<td>C</td>
<td>16 A</td>
<td>170%</td>
</tr>
<tr>
<td>C</td>
<td>10 A</td>
<td>104%</td>
</tr>
<tr>
<td>L, I</td>
<td>10 A</td>
<td>65%</td>
</tr>
<tr>
<td>G, I, II</td>
<td>16 A</td>
<td>212%</td>
</tr>
<tr>
<td>G, I, II</td>
<td>10 A</td>
<td>127%</td>
</tr>
<tr>
<td>K, III</td>
<td>16 A</td>
<td>254%</td>
</tr>
<tr>
<td>K, III</td>
<td>10 A</td>
<td>154%</td>
</tr>
</tbody>
</table>

Technical data for installation

Mains operation
- Rated mains voltage: 220-240V
- With tolerance for performance: 202-254V
- Lifetime: 30,000 hours
- Over voltage: Up to 320V (2 hours)
- Tamb: -20°C ~ +50°C
- Max Tcase: 85°C (LED Transformer 60W 24VDC)
  90°C (LED Transformer 120W 24VDC)

Protection
- Short circuit protection: Yes
- Overload protection: Yes

Wire cross-section:
- Input side: 0.75 ... 2.5 mm²
- Output side: 0.75 ... 2.5 mm²

Wire stripping length:
- Input side: 6 ... 7 mm
- Output side: 6 ... 7 mm

Cable diameter:
- Input side: 3.3 ... 8 mm
- Output side: 2 ... 5 mm

Minimum installation distance:
- between transformer: 50 mm

Wiring Diagram:

1. LED Transformer
2. 60W 24VDC
3. LED

1. LED Transformer
2. 120W 24VDC
3. LED
## Ordering and packing data:

<table>
<thead>
<tr>
<th>Transformer</th>
<th>I2NC</th>
<th>Language</th>
<th>Carton packing Qty pcs</th>
<th>Carton Dimensions L x W x H cm</th>
<th>Cartons-per pallet pcs</th>
<th>Qty-per pallet pcs</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED Transformer 60W 24VDC</td>
<td>913710032267</td>
<td>Chinese</td>
<td>20</td>
<td>28.0 x 22.5 x 22.0</td>
<td>64</td>
<td>1280</td>
</tr>
<tr>
<td>LED Transformer 60W 24VDC</td>
<td>913710032266</td>
<td>English</td>
<td>20</td>
<td>28.0 x 22.5 x 22.0</td>
<td>64</td>
<td>1280</td>
</tr>
<tr>
<td>LED Transformer 120W 24VDC</td>
<td>913710032567</td>
<td>Chinese</td>
<td>20</td>
<td>36.5 x 22.5 x 20.0</td>
<td>52</td>
<td>1040</td>
</tr>
<tr>
<td>LED Transformer 120W 24VDC</td>
<td>913710032566</td>
<td>English</td>
<td>20</td>
<td>36.5 x 22.5 x 20.0</td>
<td>52</td>
<td>1040</td>
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