### Input Parameters

- **Rated Input Voltage Range**: 100 - 240V AC
- **Input Frequency**: 47-63Hz
- **Rated Input Current**: 1.5A
- **Inrush Current (132/264VAC)**: 25/50 (Cold Start)

### Outputs

#### Output Parameters

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Voltage (V)</th>
<th>Output Current (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZP100-5</td>
<td>5</td>
<td>20</td>
</tr>
<tr>
<td>ZP100-9</td>
<td>9</td>
<td>11.2</td>
</tr>
<tr>
<td>ZP100-12</td>
<td>12</td>
<td>8.4</td>
</tr>
<tr>
<td>ZP100-15</td>
<td>15</td>
<td>6.7</td>
</tr>
<tr>
<td>ZP100-18</td>
<td>18</td>
<td>5.6</td>
</tr>
<tr>
<td>ZP100-24</td>
<td>24</td>
<td>4.2</td>
</tr>
<tr>
<td>ZP100-48</td>
<td>48</td>
<td>2.1</td>
</tr>
</tbody>
</table>

#### Output Limitations

The output voltage is factory set and should not be adjusted.

### Important Safety Instructions

#### Servicing

These products are not customer serviceable. Repairs may only be carried out by TDK-Lambda Limited or their authorised agents. These products are not authorised for use as critical components in nuclear control systems, life support systems or equipment for use in hazardous environments without the express written approval of the Managing Director of TDK-Lambda Limited.

#### Approval Limitations: Use in North America (AC units only)

When this product is used on 180VAC-250VAC mains with no neutral, connect the two live wires to L(live) and N(neutral) terminals on the input connector. In this instance double pole fusing is required.

#### High Voltage Warning

Dangerous voltages present within the power supply. The professional installer must protect service personnel from inadvertent contact with these dangerous voltages in the end equipment.

#### Safety Class of Protection

These products are designed for the following parameters: Material Group IIIb, Pollution Degree 2, Overvoltage Category II, Class I, Indoor use as part of an overall equipment such that the product is accessible to service engineers only.

### Safety Approvals

UL60950-1 and CSA 60950-1, EN60950-1, Class I and CE (LVD) mark.

### Conducted and Radiated EMI

EN55022-B, FCC Class B

Immunity

EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-6, EN61000-4-8

### Environmental Parameters

#### Operation

- **Temperature**: 0 to +70°C (ZPS100-5, -9, -12, -15, -18, -24, -48°C derate at 2.5%/°C)
- **Humidity**: 10 to 95% RH, non-condensing

#### Storage and Transportation

- **Temperature**: -20°C to +85°C
- **Humidity**: 10% to 95% RH, non-condensing

#### Shock

<196.1 m/s²(20G)

#### Vibration

23.52 m/s²(10-55Hz): Constant sweep 1 min X, Y, Z for one hour

#### Cooling

Convection

### Level of Insulation

Dielectric Strength testing is carried out as follows:
Primary mains circuits to secondary -3kVAC.

### Fuse Information

Internal fuse (F1): T2.2AL, 250V

### Input Connector

Input connector mates with Molex housing 09-50-3031 and Molex 2878 series crimp terminal.

### Output Connector

Output connector mates with Molex Housing 09-50-1081 and Molex 5194 series crimp terminal.
ZPS100 Handbook

Part Number 17163

All dimensions are in inches [mm]
Tolerances: ±.02 [.±.5] unless otherwise noted

ZPS100-5 Outline Drawing

ZPS100-9,12,15,18,24,48 Outline Drawing

All dimensions are in inches [mm]
Tolerances: ±.02 [.±.5] unless otherwise noted

Part No 17163 Issue 04 February 2009
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