Total Power: 720 Watts
Input Voltage: 85 - 264 Vac
# of Outputs: Single

**SPECIAL FEATURES**
- Unity power factor
- High efficiency - up to 93%
- Universal input voltage and frequency range
- Up to 720 W output power
- Negative enable function
- RTCA-D0 160 compliant
- IEC1000-3-2 compliance at 50 Hz and 800 Hz input
- 100 °C baseplate operating temperature
- Enable output to control DC-DC Converter
- Internal active switch bypassing external inrush current components

**SAFETY**
- UL cUL 60950 Recognized
- TUV EN60950 Licensed

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### Electrical Specifications

**Input**
- Input range: 85 - 264 VAC (Configurable)
- Input Surge: 290 VAC / 500 ms
- Input Frequency: 50/60 Hz / 360-800 Hz
- Efficiency: 93% @ 230 VAC, 720 W (Typical)
- Total Harmonic Distortion: Less than 10%
- Power Factor: 0.99 typical (115 Vac; 50 Hz to 360 Hz; 320 W); 0.99 typical (230 Vac; 720 W); 0.98 typical (115 Vac; 800Hz; 320 W)

**Control**
- LD Enable: Direct drive output to opto-isolator
- PFC Enable: Neg TTL compatible
- Voltage Adjust: 79% to 100% Vo

**Output**
- Output voltage: 393 V typical (Io = 1.83 A / Vi > 180 Vac) 393 V typical (Io=0.1A)
- Overvoltage Protection: 430 max
- Power Limit for AC input: Vin = 100 Vac, Pmax = 320 W
  Vin = 230 Vac, Pmax = 720 W
  Vin = 85 Vac, Pmax = 320 W

**Isolation**
- I/O isolation: None
- Input to base-plate: 2700 Vdc
- Output to base-plate: 2700 Vdc
- Leakage current: < 3 mA at 800 Hz input frequency

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### Environmental Specifications

- Operating ambient temperature range: -20 °C to +100 °C (baseplate temperature)
- Startup temperature: -40 °C to +100 °C (baseplate temperature)
- Storage temperature: -40 °C to 120 °C
- Overtemperature protection: 120 °C Max
- Calculated MTBF: > 1 million hours
### Ordering Information

<table>
<thead>
<tr>
<th>Model number</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIT02ZPFC-01NL</td>
<td>720 W Low Profile PFC Module</td>
<td>Negative Enabled</td>
</tr>
</tbody>
</table>

### Mechanical Drawings

Notes:
1. All specifications subject to change without notice. Mechanical drawings are for reference only.
2. Warranty: 1 yr
3. Label and logo appearance may vary from what is shown on mechanical drawings.