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Model <sup>(1)</sup>	Output Voltage	Output Current			Output
wiodei		Min.	Тур.	Max.	Power <sup>(2)</sup>
PDA080X-48VG	48V	0A	1.67A	1.70A	80W

Note (1): X is B for non-dimming or W for 0-10V Dimming Note (2): Output power derated to 72W when input voltage is <100VAC

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### PDA080X Characteristics

**Input: AC Input Voltage Rating** 90VAC to 304VAC

AC Input Frequency 47~63Hz

 $\begin{array}{l} \textbf{Maximum Input Current} \\ \leq 2 A \end{array}$ 

**Leakage Current** 0.5mA maximum at 230VAC Input

Inrush Current  $\leq 20A$ 

**OUTPUT: Power Factor** ≥ 0.9 at nominal

**Ripple and Noise** <7% (p-p)

Efficiency (Target) 87% at 277VAC 85% at 120VAC

**Turn-on Delay Time** 0.5s maximum at nominal AC Power ON

# **Environmental:**

Temperature	
Operation	-40 to +60°C
Non-operation	-40 to +85°C

Operating Humidity 10 to 95%

**Case Temperature** 80°C maximum

Warranty 5 Years

**Dimming Function: (W Models) Dimming Control** 0-10VDC

**Dimming Output to Load** PWM at 500Hz

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### **Dimming Grounding**

Dim(-) and Vout(-) must never be connected together to ensure proper operation and isolation requirements

#### EMC

EN55015/CISPR 15, FCC 47 CFR Part 15/18, Class A

#### Immunity

IEC61000-4-2 IEC61000-4-3 IEC61000-4-4 IEC61000-4-5\* IEC61000-4-6 IEC61000-4-8 IEC61000-4-11 IEC61000-3-2 Class C \*Surge Differential mode: 2.0kV, Common mode: 4.0kV

#### Ring Wave Surge (ANSI C62.41.2 Cat A)

Differential mode: 4.0kV Common mode: 6.0kV

**Input Over Current Protection** The input power line will be fused with a 3.15A fuse

#### **Short-Circuit Protection**

The PSU will withstand a short circuit across the outputs without damage

#### **Open Circuit Protection**

Once the circuit is opened, the output voltage should be less than 120% at nominal AC input conditions

# Dielectric Withstand (Hi-pot) Test

Primary to secondary: 4242VDC for 1 minute, 5mA

#### Insulation Resistance Primary to secondary: >5M Ohm 500VDC, 1 Minute

# Design Life

50K hours at full power, ambient 50°C and Tcase <rating

### Wire Connections

Position	<b>Terminal Color</b>	Specification
Line	Black	AWG18 solid wire
Neutral	White	AWG18 solid wire
Ground	Green/Yellow	AWG18 solid wire
Vout+	Red	AWG18 solid wire
Vout-	Blue	AWG18 solid wire
Dim+	Violet	AWG18 Solid wire
Dim-	Grey	AWG18 Solid Wire

