



**50W LED Driver with 4 Channel Constant Current Outputs
PDA050W LED Power Supply with 0-10V Dimming**



Features

- 4 Channel Output
- OVP, Short-Circuit Protection, OTP
- Brownout Protection
- Class 2 Output per UL1310
- IP65 Rated
- AC input: 108-304VAC
- ≥ 0.9 Power Factor Correction & THD <20%

Applications

- Indoor Lighting
- Linear Fluorescent Replacement
- Outdoor Lighting

Safety Approvals

- cUL/UL8750
- Class 2 Output per UL1310

Mechanical Characteristics

- Length: 242mm (9.5in)
- Width: 43.5mm (1.7in)
- Height: 30.5mm (1.2in)
- Weight: 675g (1.5lbs)

Output Specifications

Channel 1~4

Model	DC Output Current ¹	DC Output Voltage Range			Output Power
		Min.	Typ.	Max.	
PDA050W-450G	450mA	22V	-	26.5V	12.5W

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INPUT:

AC Input Voltage
108 to 304VAC

Nominal AC Input Voltage
120~277VAC

Leakage Current
<3.5mA at 277VAC – Case to Ground
<0.25mA at 277VAC – Outputs to Ground

Maximum Input Current
0.55A (RMS) at 108VAC, 60Hz

AC Inrush Current
<30A at 277VAC, 60Hz

OUTPUT:

Total Output Power
Maximum output should be <52W

Efficiency
>82% at 120VAC, >84% at 277VAC

Standby Power
<2.5W maximum

Power Factor
≥0.9 at nominal input voltage, full load

Ripple (CH1~CH4)
240mA p-p

Turn on/off Time
0.5 seconds maximum at nominal AC input

ENVIRONMENTAL:

Operating Temperature 0 to Tc +70°C
Storage Temperature -40 to +85°C

Operating Humidity 10 to 95%
Storage Humidity 5 to 95%

Dimming

Dimming	Min.	Typ.	Max.	Remarks
Dim Voltage-1	-	-	1V	Cut off Current at 1.V Dim. Voltage
Dim Voltage-2	-	-	1.2V	Output Current ≤14mA
Dim Voltage-3	-	5.5V	-	Driver shall provide 95mA ± 10% Current
Dim Voltage-4	-	-	10V	Driver 10V shall provide 100% Output (453mA ± 5%)
Sink Current	-	-	1mA	

100% brightness without dimmer: Open state for dimming port

EMC

FCC 47 Part 15 Class A

Immunity

EN61000-4-2 Criteria B
EN61000-4-3
EN61000-4-4
EN61000-4-5 Criteria B
EN61000-4-6
EN61000-4-8
EN61000-4-11
IEC61000-3-2 Class C

Isolation Test

Primary to Secondary: 3000VAC, <5mA, 1 minute

Insulation Resistance

Primary to Secondary: 500VDC, >5M ohm, 1 minute

FEATURES:

Input Over Current Protection

The input power line will be fused with a 2A/300V fuse resistor

Short Circuit Protection

Auto restart without damage

Output Overvoltage Protection

Auto shut down

Open Circuit Protection

Once the circuit is opened, the output voltage should be less than 140% at nominal AC input conditions

Open Temperature Protection

Wires

Input	Gauge	Length
Black (live)	UL1316 AWG18	453mm
White (neutral)	UL1316 AWG18	453mm
Ground		
Green/Yellow (GND)	UL1316 AWG18	220mm
Output		
Red (LED CH1~4+)	UL1569 AWG22	76mm
Black (GND CH1~4-)	UL1569 AWG22	76mm
Dimming		
Violet (Dimmer +)	UL1316 AWG18	127mm
Gray (Dimmer-)	UL1316 AWG18	127mm

Output Connector

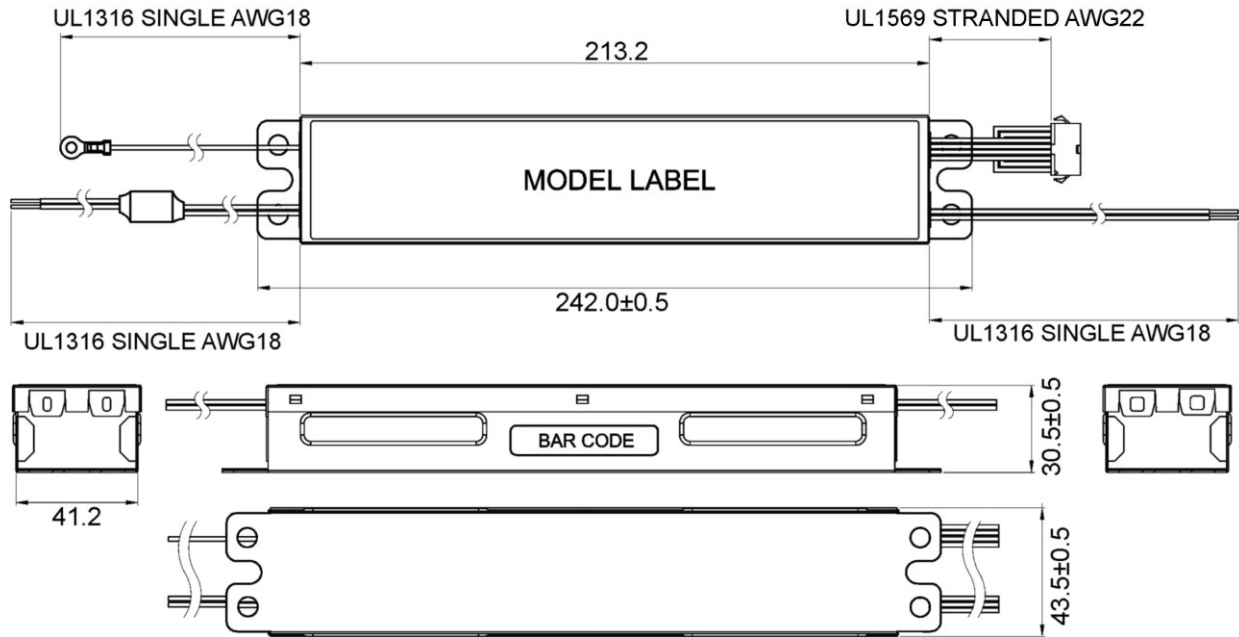
Molex 8 pin p/n – 09-50-1081 mate p/n – 09-65-2088

Ingression Protection

IP65

Warranty

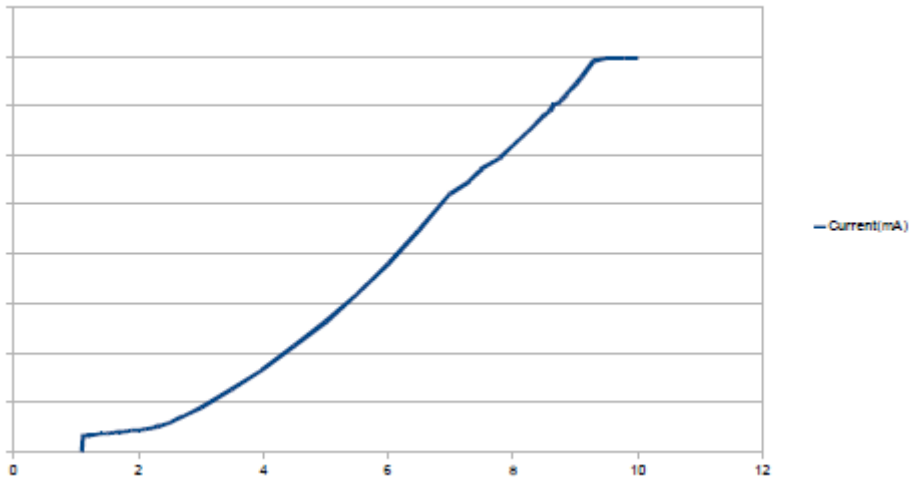
5 Years



Output Connection:

Pin Number	Connection
Pin 1	V+
Pin 2	GND
Pin 3	GND
Pin 4	V+
Pin 5	V+
Pin 6	GND
Pin 7	GND
Pin 8	V+

Dimming Curve



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