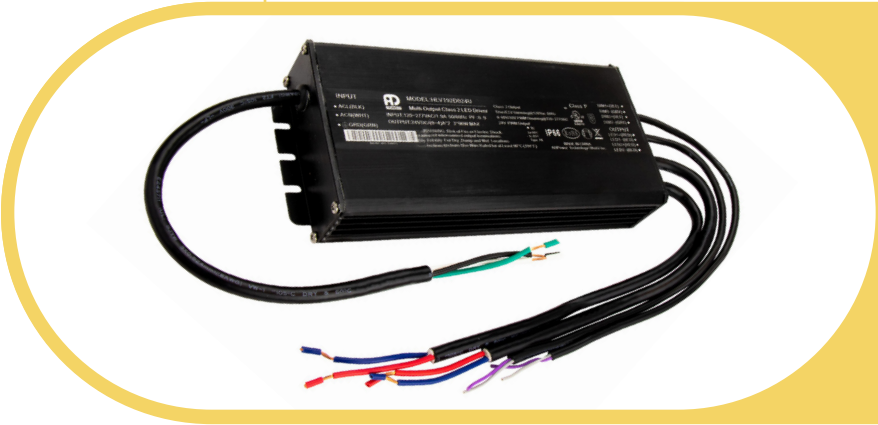
Complete Specification Sheet

HLV192

POWER SUPPLIES



HLV192

192 Watt
24 Volt Universal 3 in 1
Class 2 Power Supply

RoHS COMPLIANT | UL LISTED | CE | CLASS 2 | 24V DC | Dry Rated | Wet Rated

Specifications

Category	Power Supplies
Series	Universal 3 in 1
Family	192W (2 x 96W)
Input Voltage	100–277V AC
Output Voltage	24 DC Constant Voltage
Max Wattage	192W
Operating Temp.	-35°F (-35°C) – 140°F (60°C)
Dimming Options	MLV, ELV, 0-10V, INC

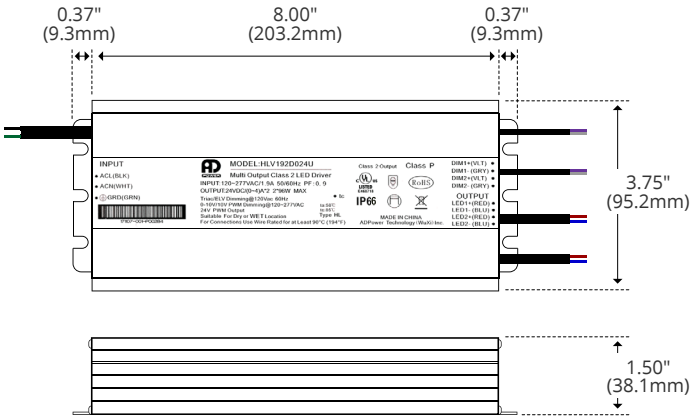
Features

- 431 Hz / Flicker-free Dimming Down to 5%
- Incandescent, ELV, MLV, or 0-10V Dimming
- Two Independent 0-10V Inputs
- Protections: Short Circuit / Over Current / Over Voltage
- Free Air Convection Cooling
- UL-listed Class 2 for Indoor / Outdoor Use

Description

IP66 Outdoor Dual Output (2x96W) Universal Power Supply with 0-10V, ELV, MLV, DMX, and Incandescent dimming. 100–277V Input

Dimensions



Order Code

HLV192

Kelvix reserves the right to update the product specifications at any time. Field modifications will void Kelvix warranty
Conforms to UL8750. Certified to CAN/CSA Standard C22.2 NO. 250.13

Fixture Type _____

Project Name _____

Location _____

Product Details

HLV192

SPECIFICATION

Spec	HLV192	
Input		
Input Voltage	108 - 305V AC	
Input Current	2.3A	
Rated Input Voltage - Phase Cut Dimming	120 - 277V AC	
Rated Input Voltage - No Phase Cut Dimming	120V AC	
Input Frequency	47 - 63Hz, 50/60 Typical	
Input Current	120V AC	1.9A @ 100% Load
	230V AC	1.0A @ 100% Load
	277V AC	0.9A @ 100% Load
Inrush Current (Cold Start)	277V AC	60A
General Characteristics		
Power Factor	120V AC	0.95 @ 30% - 100% Load
	230V AC	0.9 @ 50% - 100% Load
	277V AC	0.9 @ 60% - 100% Load
Total Harmonic Distortion	120V AC	<20% @ 30% - 100% Load
	230V AC	<20% @ 50% - 100% Load
	277V AC	<20% @ 100% Load
Efficiency - Steady State	120V AC	88% Min, 90% Typical
	277V AC	90% Min, 92% Typical
	347V AC	90% Min, 92% Typical
Turn On Delay Time, Cold Start, No Dimmer	0.3s Typical 0.5s Max	
Output		
Output Voltage	24V	
Output Current	4A	
Output Power	192W (2x 96W)	
Line Regulation	1%	
Ripple Voltage Full Load, Peak-to-Peak / Average	3%	
Output Voltage Overshoot when Turning Power On	2%	

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Fixture Type _____

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Product Details

HLV192

SPECIFICATION

Spec	HLV192
0-10V or Resistor Dimming	
Can be used to dim the output voltage via a standard commercial wall dimmer (0-10VDC), an external control voltage source (0-10VDC), or external resistor. The dimming range is 100% VOUT to 5% VOUT. When DIM is 8-10VDC, the output voltage maintains 100% VOUT, and when DIM is below 0.6V, the output voltage is 5% VOUT.	
Absolute Maximum Voltage on 0-10 V Pin	-2 - 15V
Source Current on 0-10 V Dimming Pin	100uA
DIM Voltage for Full Bright	8V
External Resistor Value at Full Bright	90kΩ
Output Duty Cycle 0-10V	5-100%
PWM Dimming	
The PWM dimming is a dimming manner that can be used to dim the output voltage via the duty cycle of PWM signal. The dimming range is 100% VOUT to 5% VOUT. When the duty cycle is 80% to 100%, the output voltage reaches 100% VOUT, and the output voltage maintains 5% VOUT when the duty cycle below 6%.	
PWM Frequency	0.1 - 1KHz
High Level Voltage of PWM Signal	8 - 12V 10V Typical
Lower Level Voltage of PWM Signal	0 - 1V
Output Duty Cycle	5 - 100%
Phase Cut Dimming	
The unit is compatible with Leading-Edge and Trailing-Edge Dimmers	
Input Voltage	120V AC
Dim Output Voltage	0 - 100%
Suggest Load Range (PWM)	19.2W Min, 192W Max
Protection	
Over Temperature Protection	Unit will recover automatically after fault conditions are removed
	If the case temperature exceeds 90ºC, the output voltage of the driver is automatically reduced.
Short Circuit Protection	Auto-recovery after fault conditions are removed.
Environment	
Storage Temperature	-40°F (-40°C) - 185°F (85°C), 5% RH to 95% RH
Operating Relative Humidity	10 - 90% Non Condensing
Environment	Dry/Damp
Others	
Length	7.95" (202mm)
Width	3.78" (96mm)
Height	1.54" (39mm)
Net Weight	3.5lbs (1.58kg)
Safety Compliance	
Certifications	UL8750 Compliance to UL1310 Class 2, CSA-C22.2 No. 107.1
Note:	Note: Unless otherwise specified, all the above parameters are measured at ambient temperature of 25ºC and 120V AC

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Fixture Type _____

Project Name _____

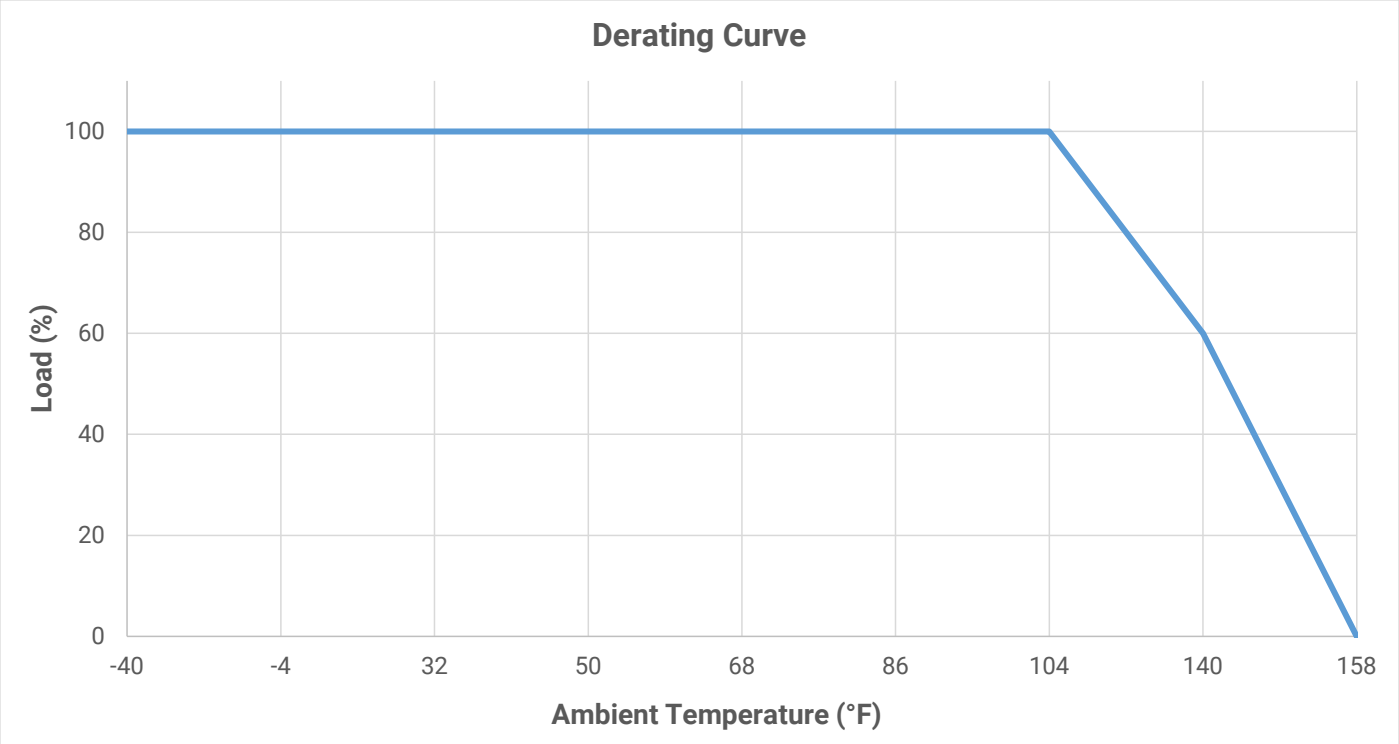
Location _____

Dimming Chart

HLV192

Charts

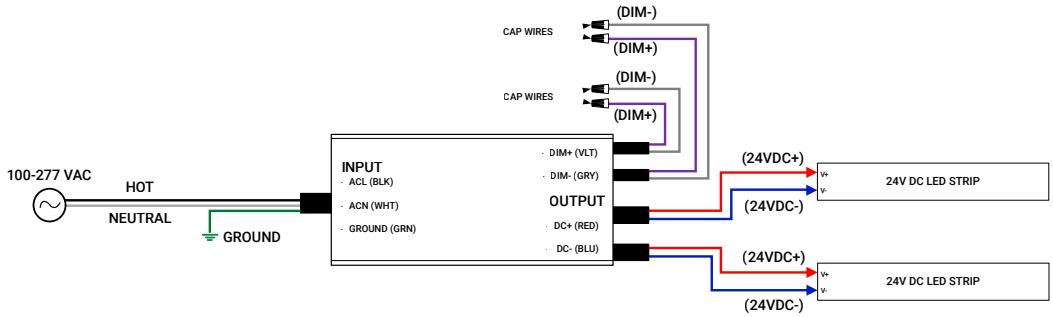
DERATING CURVE



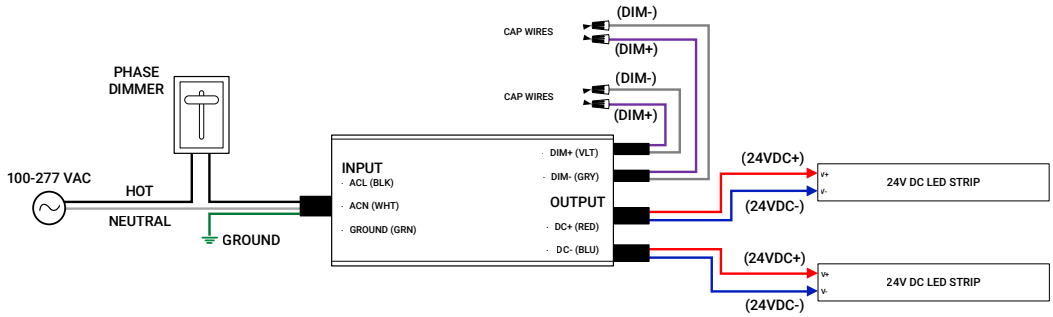
Wiring Diagram

ULV192, ULV192-SC, HLV192, HLV192-SC

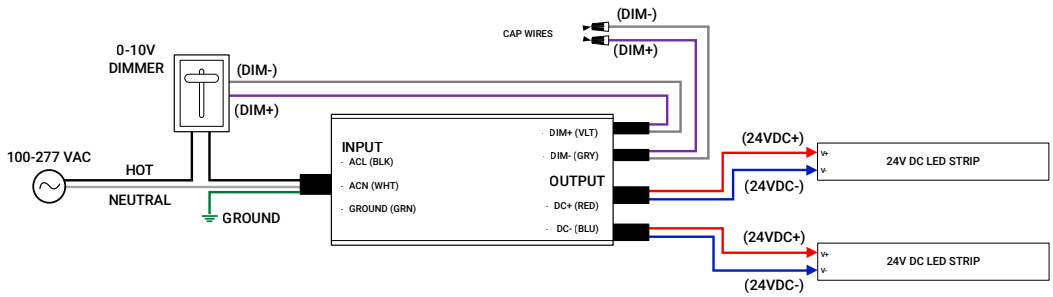
STANDARD APPLICATION (NO DIMMING)



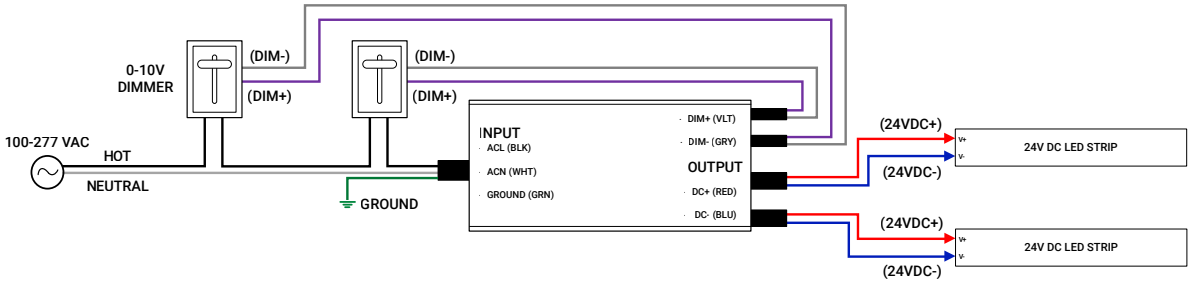
PRIMARY SIDE DIMMING (120V ONLY)



SECONDARY SIDE DIMMING; 1 CIRCUT (0-10V)



SECONDARY SIDE DIMMING; 2 CIRCUT (0-10V)



Compatible with:

- ULV192
- HLV192
- ULV192-SC
- HLV192-SC

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