



Complete Specification Sheet

HLV192

HLV192

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



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(-37°C) - 158°F(70°C) |
| Dimming Options | MLV, ELV, 0-10V, INC |

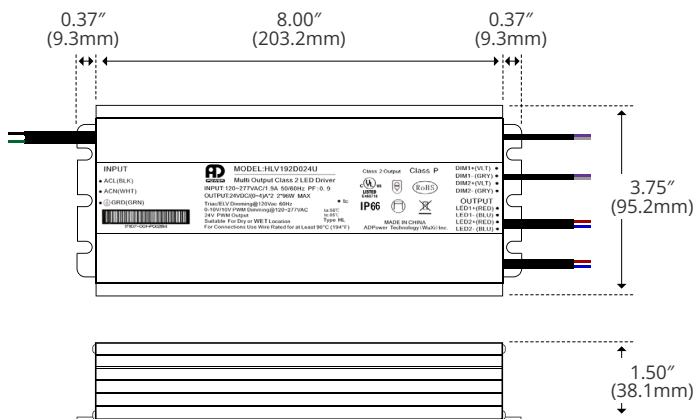
Features

- 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

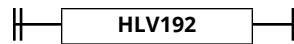
Description

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

Dimensions



Order Code



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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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 0-10V Pin | -2 - 15V |
| Source Current on 0-10V 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 90°C, 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 25°C and 120V AC |

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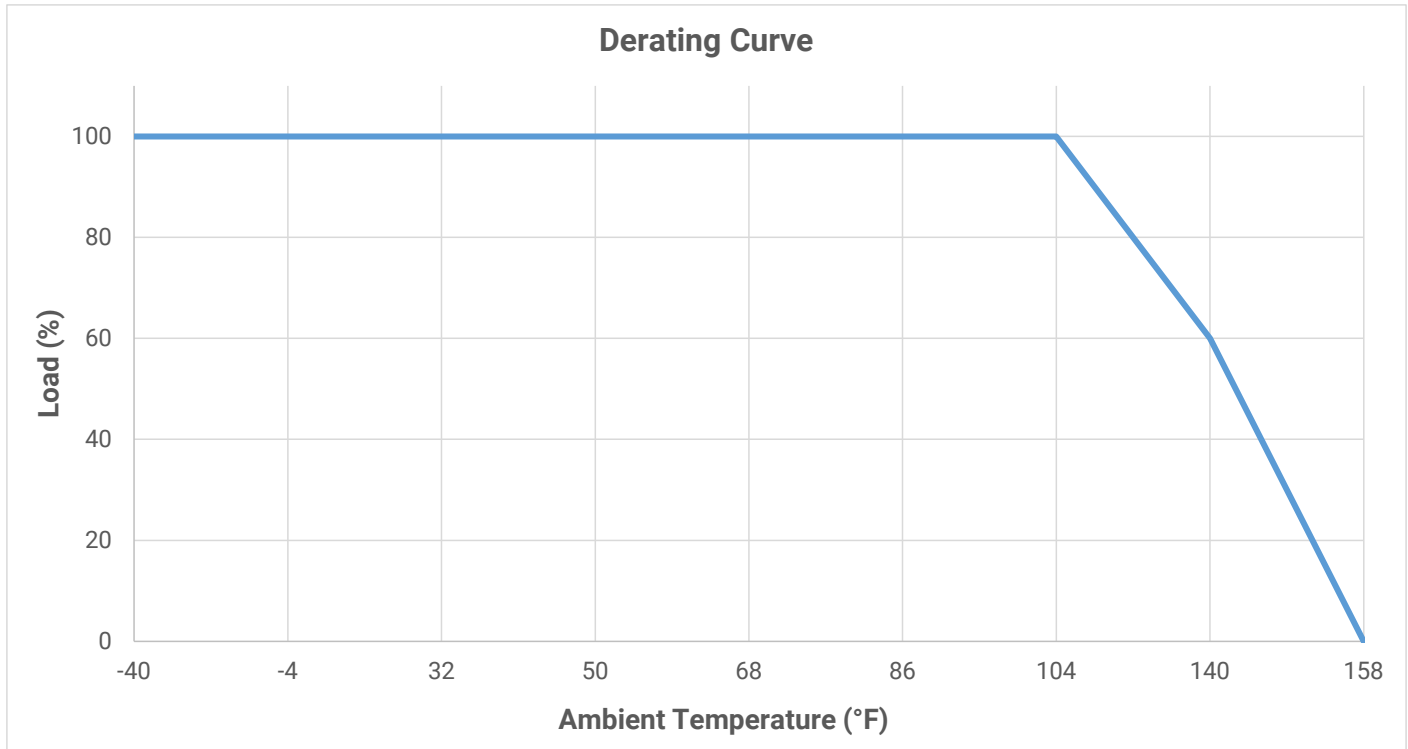


Dimming Chart

HLV192

Charts

DERATING CURVE



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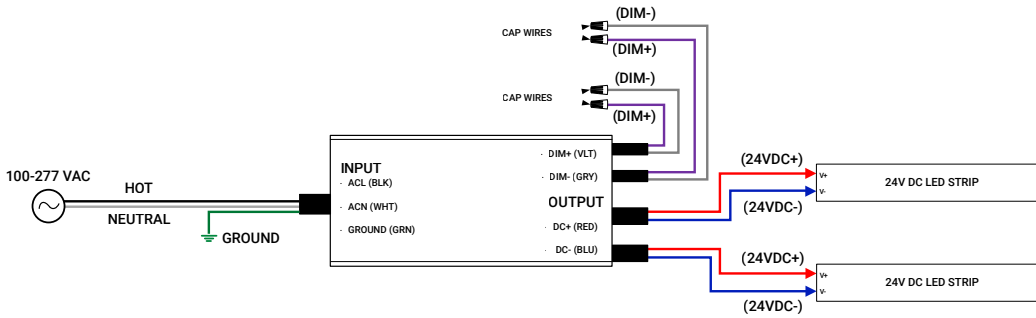
Location _____



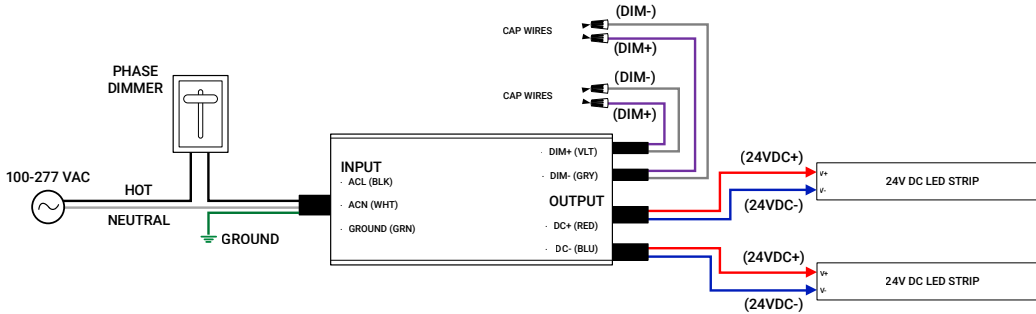
Wiring Diagram

ULV192, ULV192-SC, HLV192, HLV192-SC

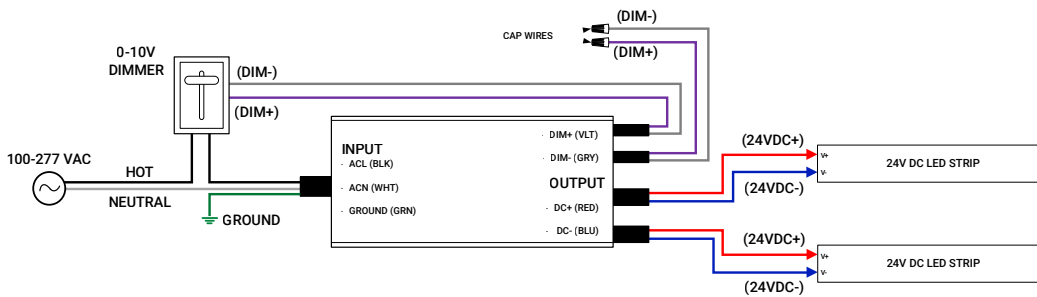
STANDARD APPLICATION (NO DIMMING)



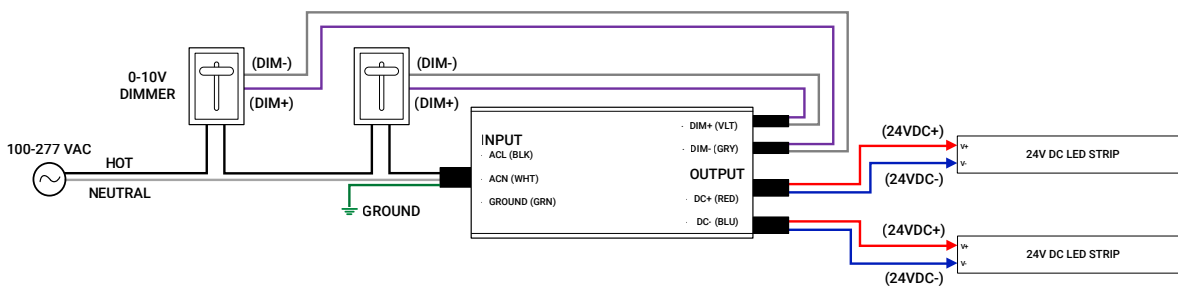
PRIMARY SIDE DIMMING (120V ONLY)



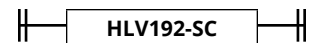
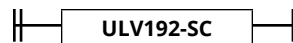
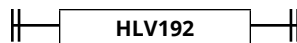
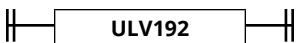
SECONDARY SIDE DIMMING; 1 CIRCUIT (0-10V)



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



Compatible with:



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