



Complete Specification Sheet

ULV96-SC-DIM

ULV96-SC-DIM

96 Watt
24 Volt
Class 2 Power Supply



Specifications

Category	Power Supplies
Series	Universal (3 in 1)
Family	96W
Input Voltage	100-277V AC
Output Voltage	24 DC Constant Voltage
Max Wattage	96W
Operating Temp.	-35°F(-37°C) - 158°F (70°C)
Dimming Options	Triac, MLV, ELV, 0-10V, INC

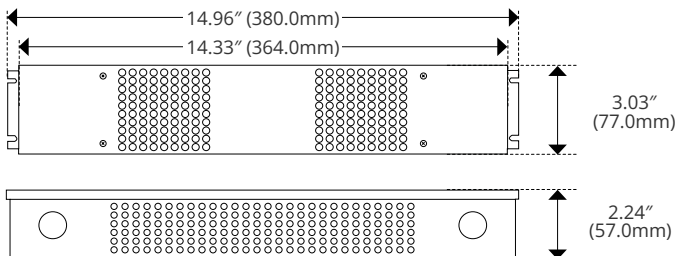
Features

- Universal Dimming: ELV, MLV, Triac, or 0-10V down to ≤0.1%
- Overload Protection/Auto Reset Short Circuit Protection
- Free Air Convection Cooling
- Suitable for Dry/Damp Location
- UL-listed Class 2

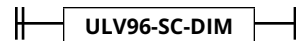
Description

Illuminate indoor spaces with confidence using the ULV96-SC-DIM, a versatile 96W constant voltage LED power supply designed to adapt seamlessly to various dimming systems. Ensuring reliable operation with built-in protective measures, this power supply embraces a robust design for efficient performance. UL-listed as Class 2 and suitable for Dry and Damp locations, it offers a reliable and adaptable solution for your indoor lighting needs.

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

ULV96-SC-DIM

SPECIFICATION

Spec	ULV96-SC-DIM	
Input		
Input Voltage	100 - 277V AC	
Input Current		
Rated Input Voltage - Phase Cut Dimming		
Rated Input Voltage - No Phase Cut Dimming		
Input Frequency	47 - 63Hz, 50/60 Typical	
Input Current	120V AC @ 100% Load	
	230V AC @ 100% Load	
	277V AC @ 100% Load	
Inrush Current (Cold Start)	120V AC	20A
	230V AC	
	277V AC	25A
Leakage Current (60Hz)	120V AC	<0.5mA
	230V AC	
	277V AC	
General Characteristics		
Power Factor	120V AC	0.99 @ 30% - 100% Load
	230V AC	
	277V AC	0.95 @ 70% - 100% Load
Total Harmonic Distortion	30% - 100% Load 120V AC	<20%
	50% - 100% Load 230V AC	
	60% - 100% Load 277V AC	<20%
Efficiency - Steady State	120V AC	83%
	277V AC	86%
	347V AC	
Turn On Delay Time, Cold Start, No Dimmer		
Output		
Output Voltage	24V	
Output Current	4A	
Output Power	96W	
Voltage Tolerance	±0.5V	
Line Regulation		
Ripple Voltage Full Load, Peak-to-Peak / Average		
Output Voltage Overshoot when Turning Power On		

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Product Details

ULV96-SC-DIM

SPECIFICATION

Spec	ULV96-SC-DIM
0-10V or Resistor Dimming	
Absolute Maximum Voltage on 0-10V Pin	
Source Current on 0-10V Dimming Pin	
DIM Voltage for Full Bright	
External Resistor Value at Full Bright	
Output Duty Cycle 0-10V	
PWM Dimming	
PWM Frequency	
High Level Voltage of PWM Signal	
Lower Level Voltage of PWM Signal	
Output Duty Cycle	
Phase Cut Dimming	
Input Voltage	
Dim Output Voltage	
Suggest Load Range (PWM)	
Triac Dimming	
Input Voltage	
Dim Output Voltage (PWM)	
Suggest Load Range for 120V AC	
Protection	
Over Loading	≤120% Hiccup mode, auto-recovery after fault condition is removed
Over Temperature Protection	212°F±18°F shut down o/p voltage, automatically recover after cooling
Short Circuit Protection	Auto-recovery after fault conditions are removed.
Environment	
Storage Temperature	-40°F (-40°C) - 176°F (80°C), 10% RH to 95% RH
Ambient Operating Temperature	40 - 140°F
Operating Relative Humidity	20 - 95% Non Condensing
Cooling	Convection cooling
Environment	Dry/Damp/Wet

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Fixture Type _____
 Project Name _____
 Location _____

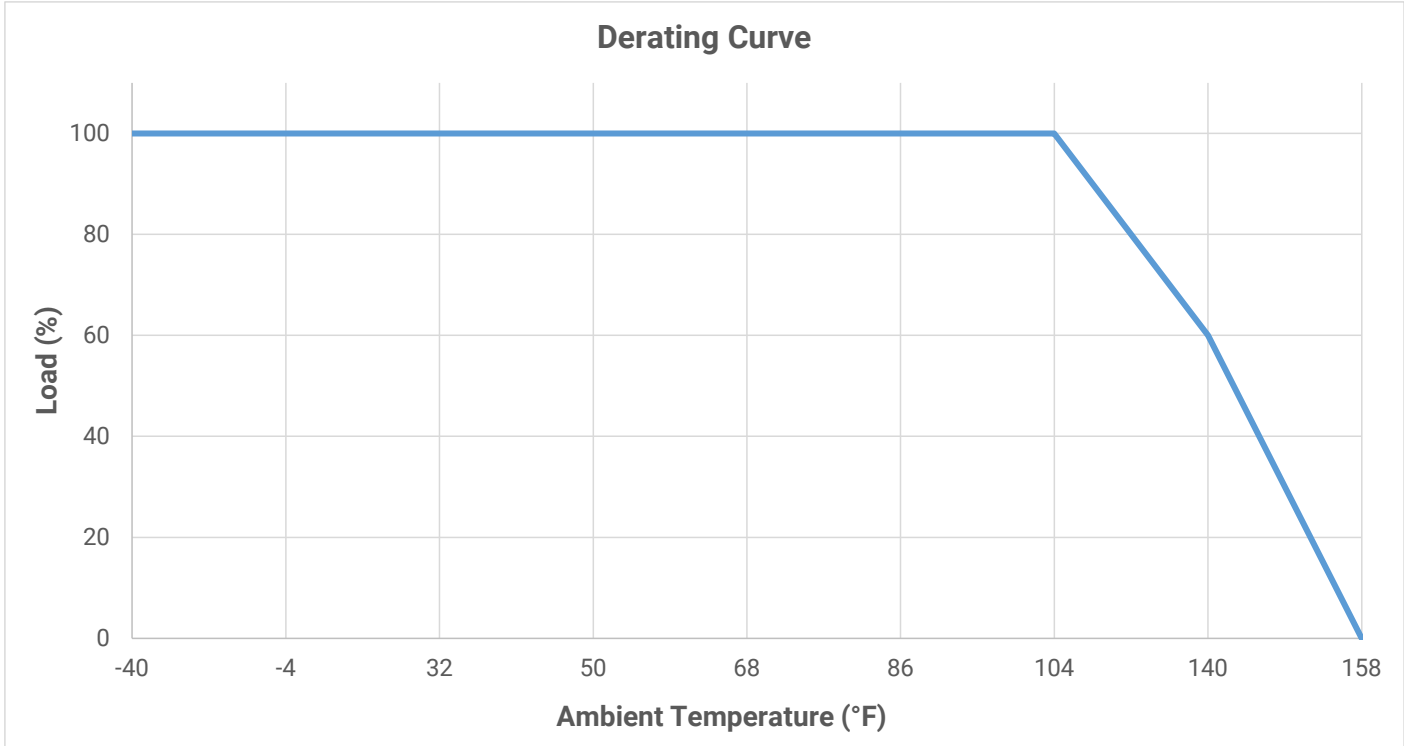


Dimming Chart

ULV96-SC-DIM

Charts

DERATING CURVE



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Fixture Type _____

Project Name _____

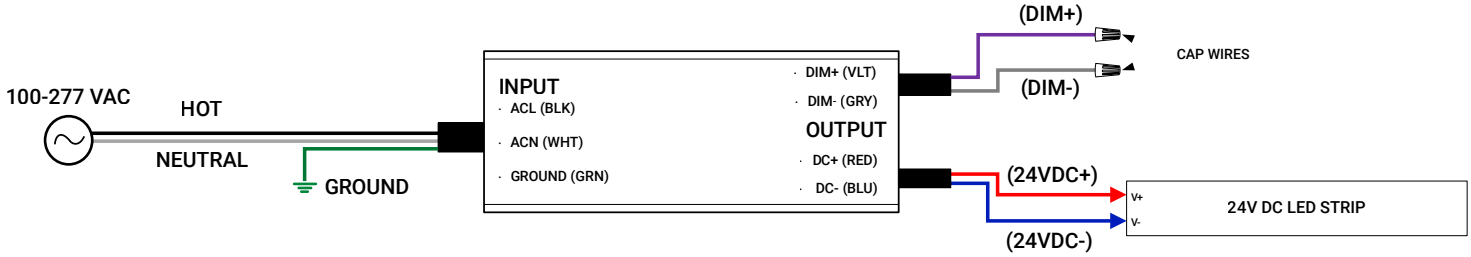
Location _____



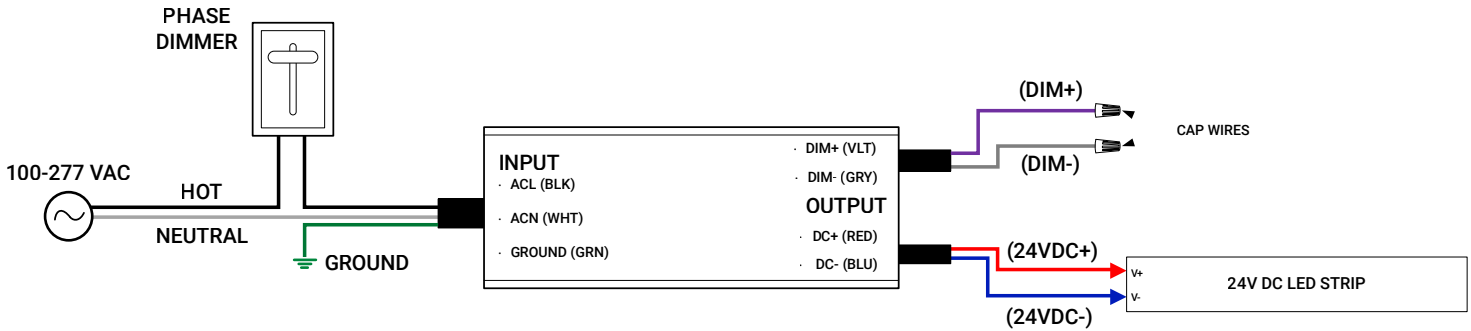
Wiring Diagram

ULV36, ULV96-X, HLV36-X, HLV96-X

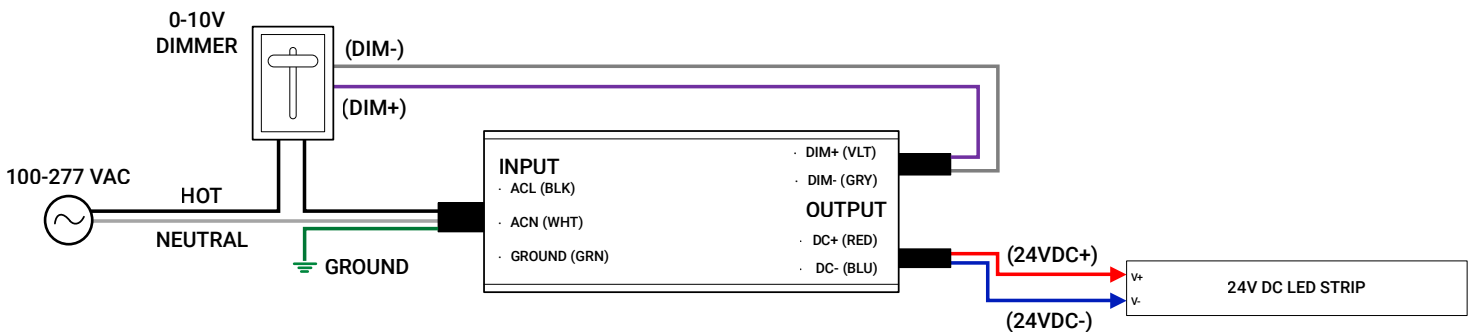
STANDARD APPLICATION (NO DIMMING)



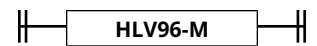
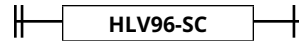
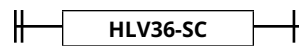
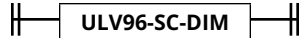
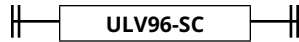
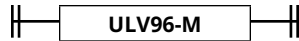
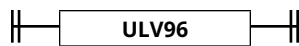
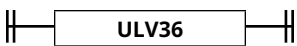
PRIMARY SIDE DIMMING (120V ONLY)



SECONDARY SIDE DIMMING (0-10V)



Compatible with:



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