



# Complete Specification Sheet

## ULV96-SC

# ULV96-SC

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

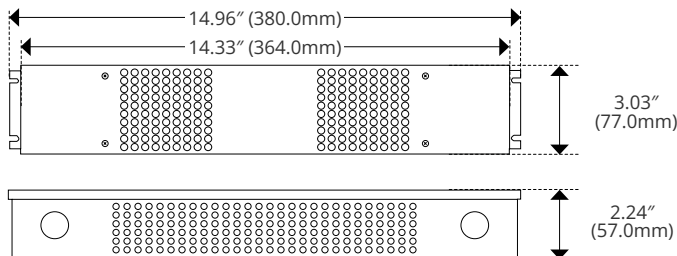
### Features

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

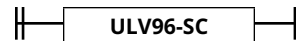
### Description

Illuminate indoor spaces with confidence using the ULV96-SC, 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

### SPECIFICATION

Spec	ULV96	
	<b>Input</b>	
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	
<b>General Characteristics</b>		
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		
	<b>Output</b>	
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

### SPECIFICATION

Spec	ULV96
<b>0-10V or Resistor Dimming</b>	
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	
<b>PWM Dimming</b>	
PWM Frequency	
High Level Voltage of PWM Signal	
Lower Level Voltage of PWM Signal	
Output Duty Cycle	
<b>Phase Cut Dimming</b>	
Input Voltage	
Dim Output Voltage	
Suggest Load Range (PWM)	
<b>Triac Dimming</b>	
Input Voltage	
Dim Output Voltage (PWM)	
Suggest Load Range for 120V AC	
<b>Protection</b>	
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.
<b>Environment</b>	
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 \_\_\_\_\_



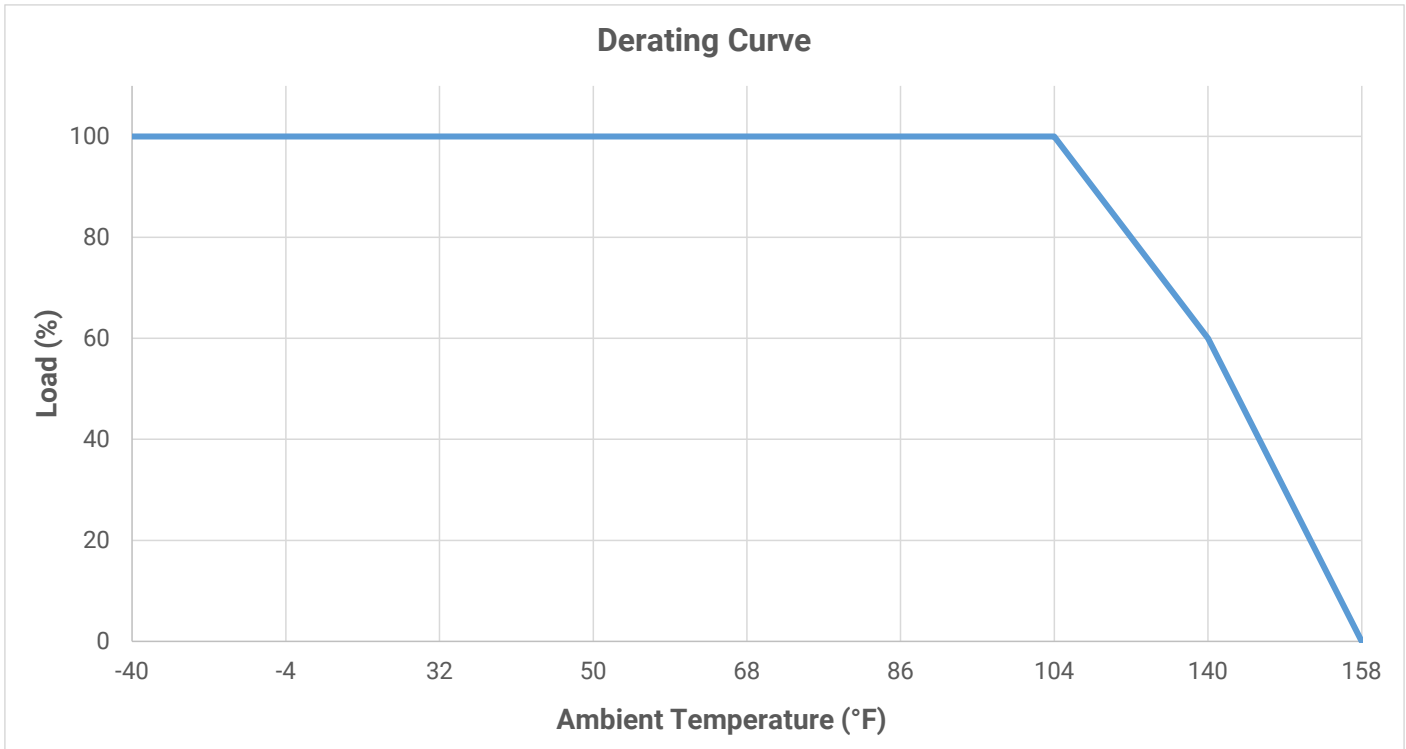


# Dimming Chart

## ULV96-SC

### Charts

#### DERATING CURVE



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Fixture Type \_\_\_\_\_

Project Name \_\_\_\_\_

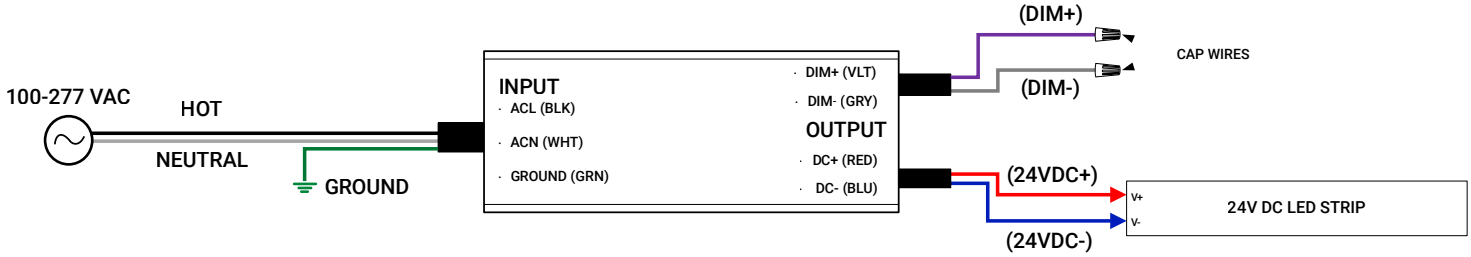
Location \_\_\_\_\_



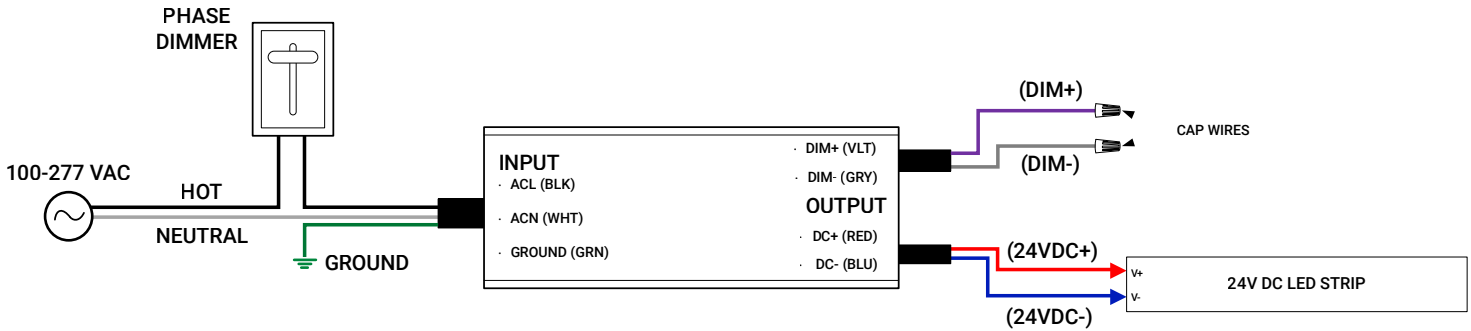
# Wiring Diagram

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

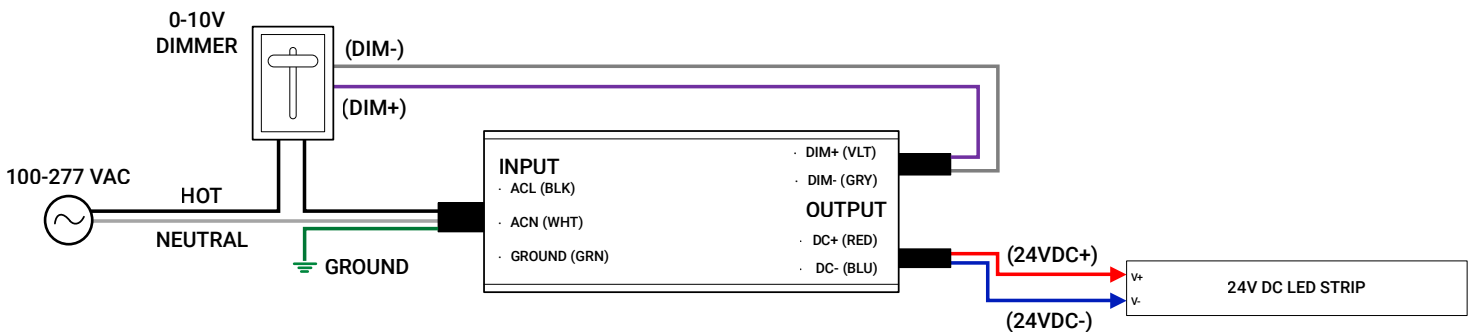
### STANDARD APPLICATION (NO DIMMING)



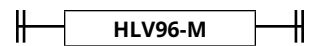
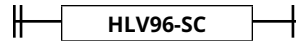
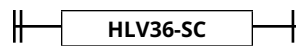
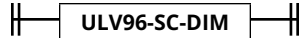
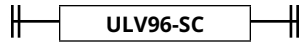
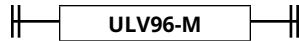
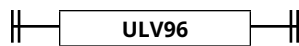
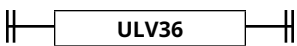
### PRIMARY SIDE DIMMING (120V ONLY)



### SECONDARY SIDE DIMMING (0-10V)



### Compatible with:



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