



Complete Specification Sheet

HLV96-SC

HLV96-SC

96 Watt
24 Volt Universal 3 in 1
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. | -13°F (-25°C) - 122°F (50°C) |
| Dimming Options | Triac, MLV, ELV, 0-10V, INC |

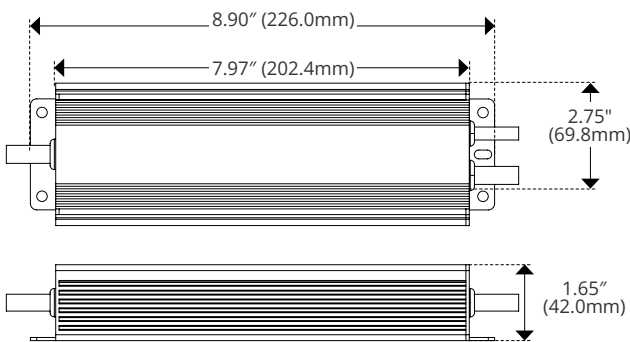
Features

- Universal Dimming: ELV, MLV, Triac, or 0-10V down to ≤1%
- Overload Protection/Auto Reset Short Circuit Protection
- Free Air Convection Cooling
- Suitable for Dry, Damp, and Wet Location
- UL-listed Class 2

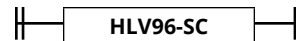
Description

Light up outdoor spaces with resilience using the HLV96-SC, a 96W constant voltage LED power supply designed to thrive in diverse environmental conditions. With wide dimming compatibility catering to various systems, this power supply provides a versatile solution for outdoor applications. Featuring protective measures and a design for consistent performance, the HLV96-SC sets the standard for durability and adaptability. UL-listed as Class 2 and suitable for Dry, Damp, and Wet locations, it delivers reliable illumination in various outdoor settings.

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

HLV96-SC

SPECIFICATION

| Spec | HLV96-SC | |
|---|---|------------------------|
| Input | | |
| Input Voltage | 100 - 277V AC | |
| Input Current | 1.3A @ Full Load 100V Ac | |
| Input Frequency | 47 - 63Hz, 50/60 Typical | |
| Inrush Current (Cold Start) | 120V AC | 20A |
| | 277V AC | 25A |
| Leakage Current (60Hz) | 120V AC | <0.5mA |
| General Characteristics | | |
| Power Factor | 120V AC | 0.99 @ 30% - 100% Load |
| | 277V AC | 0.95 @ 70% - 100% Load |
| Total Harmonic Distortion | 120V AC | <20% @ 30% - 100% Load |
| | 277V AC | <20% @ 60% - 100% Load |
| Efficiency - Steady State | 120V AC | 83% |
| | 277V AC | 86% |
| Turn On Delay Time, Cold Start, No Dimmer | 0.3s Typical, 0.5s Max | |
| Output | | |
| Output Voltage | 24V | |
| Output Current | 4A | |
| Output Power | 96W | |
| Voltage Tolerance | ±0.5V | |
| 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 | -13°F (-25°C) - 122°F (50°C) | |
| Operating Relative Humidity | 20 - 95% Non Condensing | |
| Cooling | Convection cooling | |

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Fixture Type _____
 Project Name _____
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Product Details

HLV96-SC

SPECIFICATION

| Spec | HLV96-SC |
|--------------------------|---|
| Environment | Dry/Damp |
| Others | |
| Length | 9.06" (230mm) |
| Width | 2.76" (70mm) |
| Height | 1.69" (43mm) |
| Net Weight | 2.31lbs (1.05Kg) |
| Safety Compliance | |
| Certifications | FCC UL cUL Class 2, UL8750 + UL1310, class 2 CAN/CSA-C22.2 No. 250.13 |
| Vibration | 10-500Hz, 5G 10min/1 cycle, period for 60min each along X, Y, Z axes |
| Withstand Voltage | I/P-O/P: 1.88KVAC |
| Isolation Resistance | I/P-O/P: 100MΩ / 500VDC / 77°F / 70% RH |
| EMI Emission | FCC 47 CFR Part 15, Subpart B (US) |
| Note: | <p>1. All parameters if NOT specially mentioned are measred at 120VAC input, rated load and 77°F of ambient temperature.</p> <p>2. Tolerance: includes set up tolerance, line regulation and load regulation. 3. The power supply is considered as a component that will be operated in combination with final Equipment. Since EMC performance will be affected by the complete installation, the final equipment manufactures must be-qualify EMC Directive on the complete installation again.</p> |

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Fixture Type _____

Project Name _____

Location _____

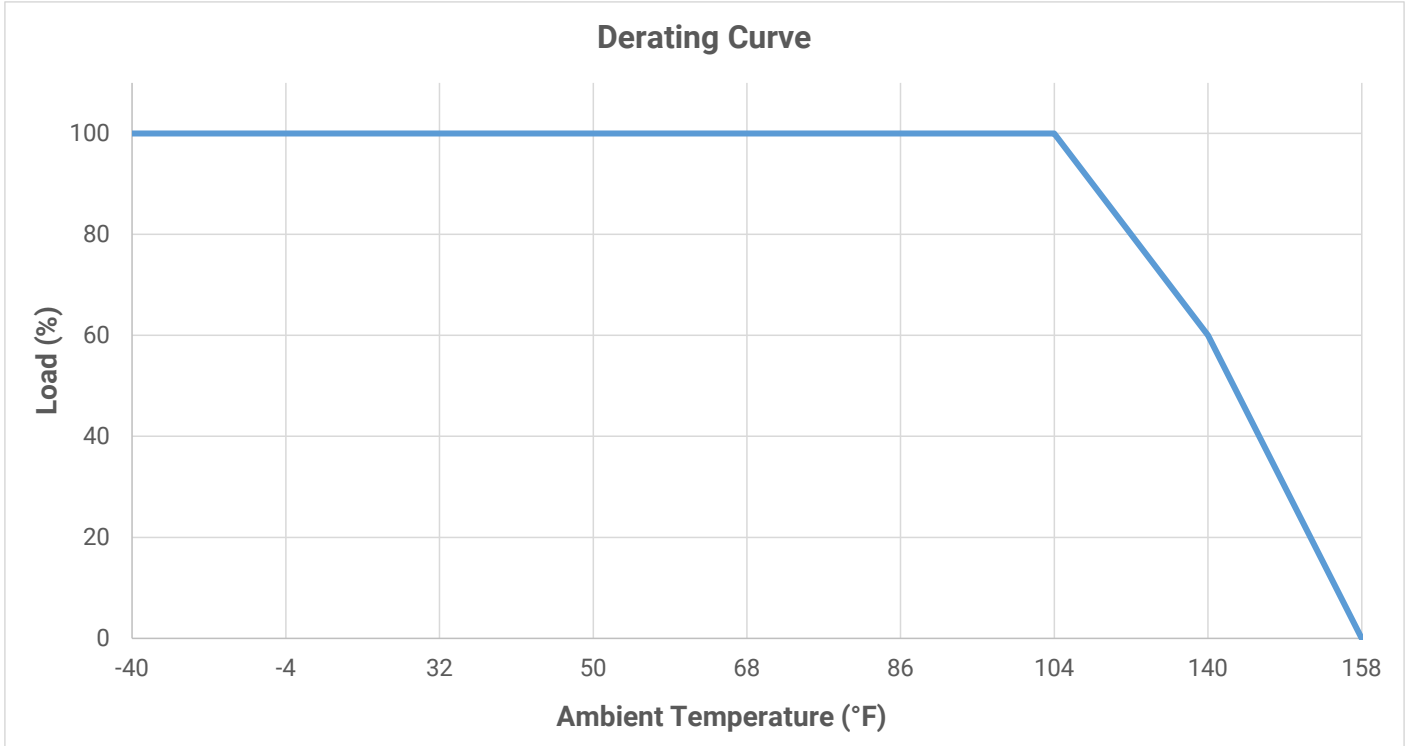


Dimming Chart

HLV96-SC

Charts

DERATING CURVE



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Fixture Type _____

Project Name _____

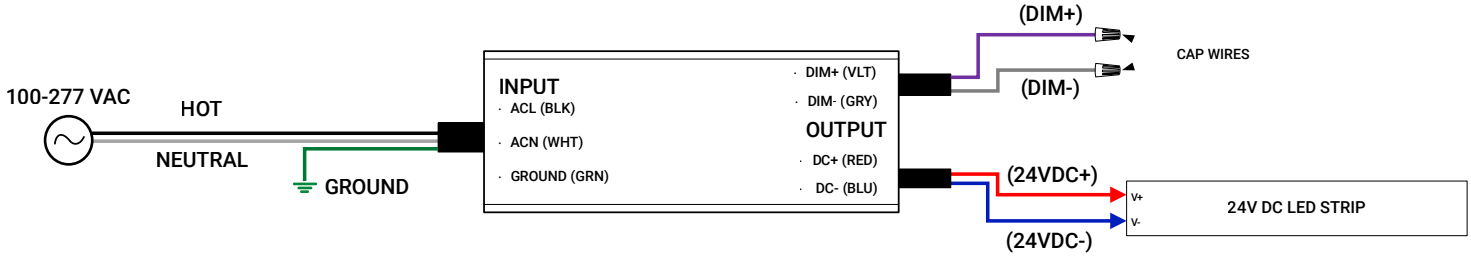
Location _____



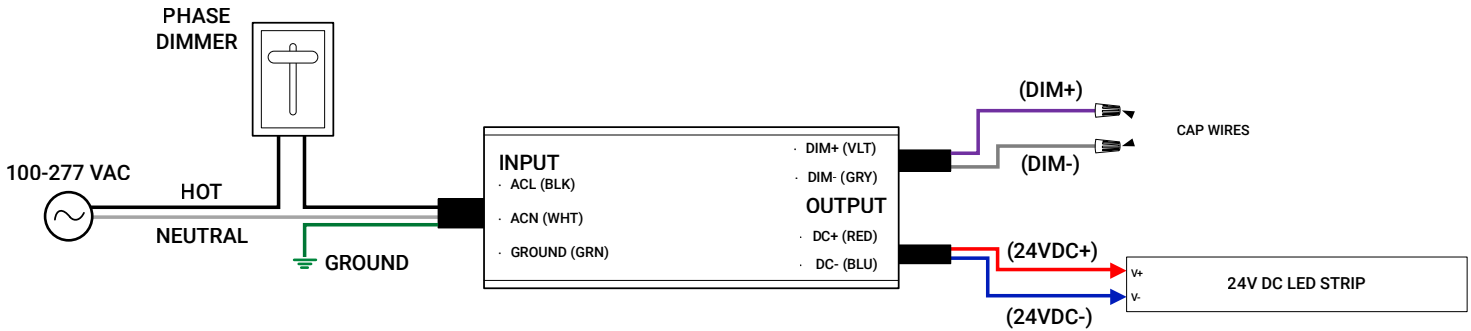
Wiring Diagram

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

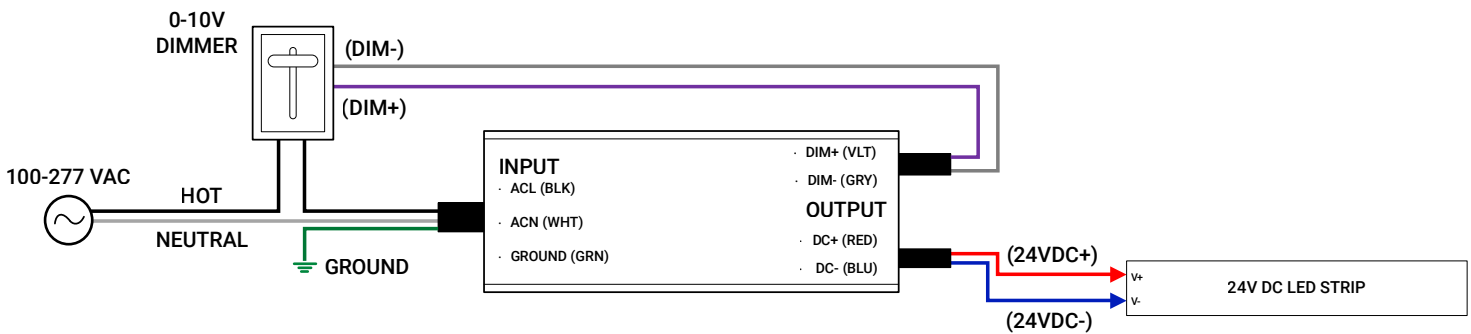
STANDARD APPLICATION (NO DIMMING)



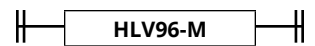
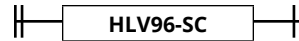
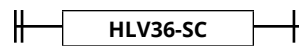
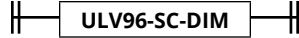
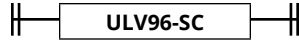
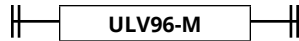
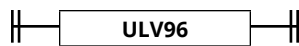
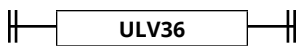
PRIMARY SIDE DIMMING (120V ONLY)



SECONDARY SIDE DIMMING (0-10V)



Compatible with:



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