



Complete Specification Sheet

OSLV96

OSLV96

96 Watt, 24 Volt, Non-Dim, Class 2 Power Supply



Specifications

Category	Power Supplies
Series	SLV
Family	Outdoor SLV
Input Voltage	100-277V AC
Output Voltage	24 DC Constant Voltage
Max Wattage	96W
Storage Temp.	-40°F (-40°C) to 176°F (80°C)
Operating Temp.	-40°F (-40°C) to 140°F (60°C)
Dimming Options	None (Requires external decoder & controls)

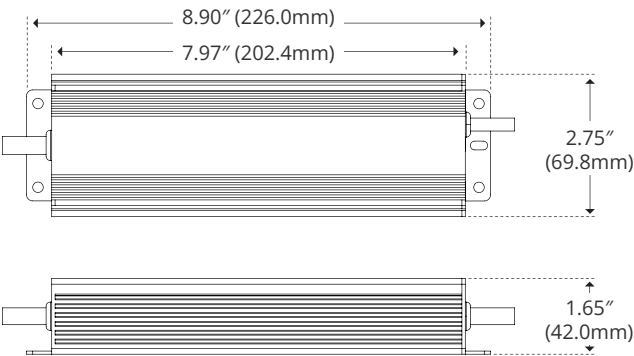
Features

- Non-Dimmable Driver
- Compatible with Color Changing and Pixel Systems
- Overload Protection/Auto Reset Short Circuit Protection
- Free Air Convection Cooling
- Suitable for Dry/Damp/Wet Location
- UL-Listed Class 2

Description

The OSLV96 is a 96 Watt outdoor-rated LED power supply designed for color changing and pixel lighting. Built to withstand harsh weather conditions, it offers high efficiency and reliable performance, making it ideal for outdoor installations. The OSLV96 seamlessly powers a wide range of Kelvix color changing and digital pixel products, ensuring consistent, dynamic lighting for creative outdoor displays.

Dimensions



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 _____



Document Title

OSLV96

Series Data

Model Name	Rated Input Voltage	Max Output Power	Output Current	Rated Output Voltage	Note
OSLV96	100-277V AC	96W	0-4000mA	24V	Non-Dimming

Specification

Parameters	Symbols	Test Conditions / Comment	Min	Typical	Max	Units
Input						
Rated Input Voltage	V _{IN RATED}		100		277	VAC
Input Frequency	f _{line}		47	50 / 60	63	Hz
Input Current	I _{IN}	Full Load			0.8	A
Inrush Current	I _{INRUSH}	1.6ms @ 50% V _{IN} = 120V AC		20		A
		1.2ms @ 50% V _{IN} = 277V AC		27		
Leakage Current	I _{LEAKAGE}			0.5		mA
General Characteristics						
Power Factor	PF	100% Load, V _{IN} = 120V AC		>0.95		PF
		100% Load, V _{IN} = 277V AC		>0.95		
Total Harmonic Distortion	THD	<20% @ 100VAC~277V AC			20	%
Efficiency	η	V _{IN} = 120V AC		84		%
		V _{IN} = 277V AC		86		
Output						
Output Current	I _{OUT}		0		4000	mA
Output Power	P _{OUT}				96	W
Voltage Regulation	V _{OUT-LINE}			<0.5		%
DC Voltage	V _{OUT-LINE}			24		V
Voltage Tolerance	V _{OUT-LINE}			±0.5		V
Environment						
Storage Temperature	T _{Storage}	Humidity: 10% RH to 95% Relative Humidity Non-Condensing	-40		176	°F
Operating Temperature	T _a		-40		140	°F
Operating Humidity	H _a	Relative Humidity Non-condensing	20		95	%
Others						
Net Weight	W _{NET}	2.31lbs		1.05		Kg
Dimension	8.90" × 2.75" × 1.65" (226mm × 69.8mm × 42mm)					

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 _____



Document Title

OSLV96

Specification

Parameters	Symbols	Test Conditions / Comment	Min	Typical	Max	Units
Safety Compliance						
Certifications	UL / cUL / FCC / Class 2 / Class P / CE / RoHS / Reach					
CUL/UL	UL8750 CAN/CSA-C22.2 No. 250.13 (US)					
Short Circuit	Hiccup mode, recovers automatically after fault condition is removed					
Over Loading	≤120% Hiccup mode, recovers automatically after fault condition is removed					
Over Temperature	Shell surface temp. 212°F +18°F shut down o/p voltage, automatically recover after cooling					
Temperature Coefficient	±0.0167% / °F (32–122°F)					
Vibration	10~500Hz, 5G 12min/1 cycle, period for 72min each along X, Y, Z axes					
Withstand Voltage	I/P-O/P: 1.88KVAC I/P-FG:1.8KVAC O/P-FG:1.8KVAC (US)					
Isolation Resistance	I/P-O/P: 100MΩ / 500VDC / 77°F / 70% RH					
EMC Emission	FCC 47 CFR Part 15, Subpart B (US)					
Note: 1. All parameters NOT specially mentioned are measred at 120VAC input, rated load and 77°F of ambient temperature. 2. To extend the driver's using life, please reduce the loading at lower input voltage.						

Fixture Type _____

Project Name _____

Location _____

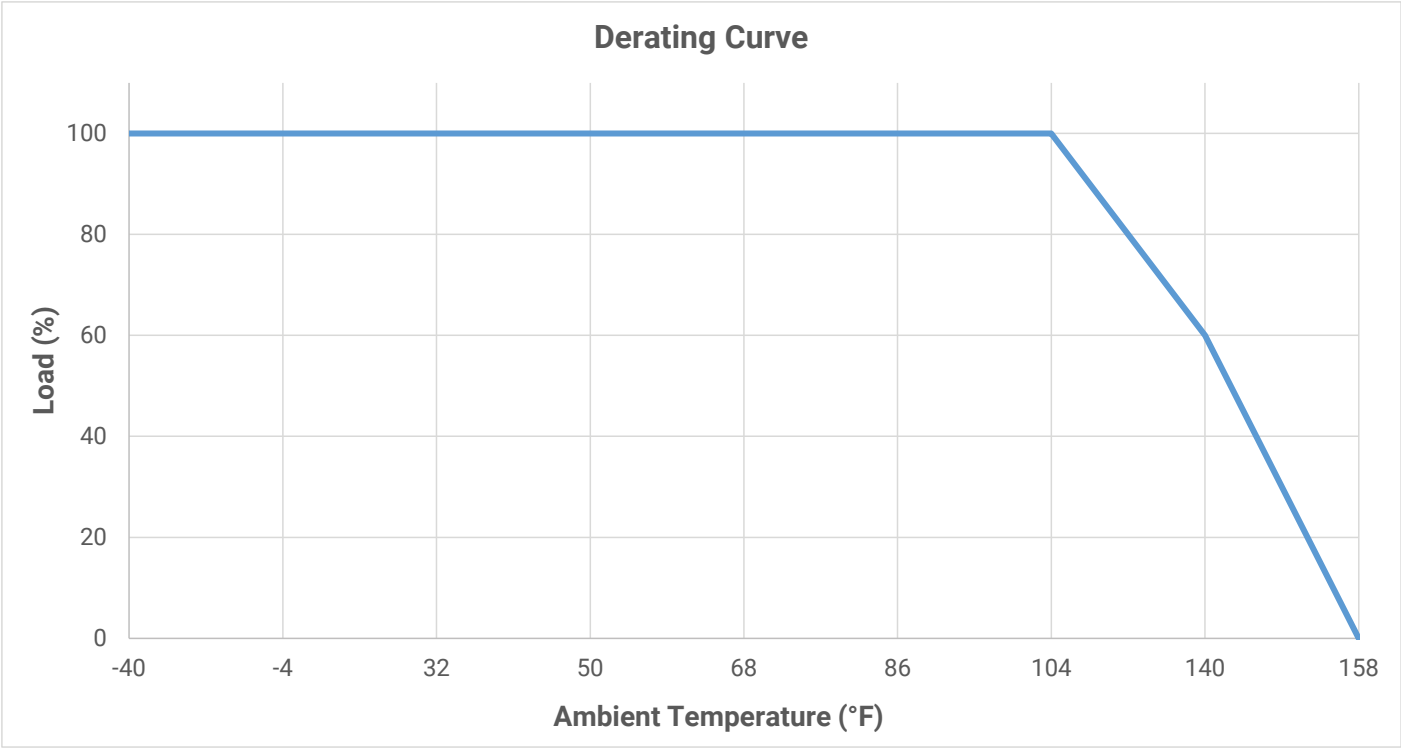


Document Title

OSLV96

Charts

Derating Curve



Fixture Type _____

Project Name _____

Location _____

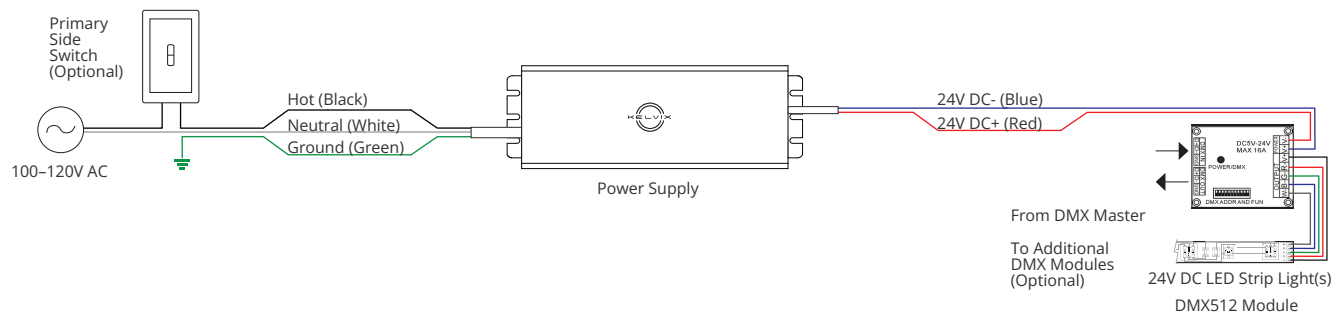


Document Title

OSLV96

Wiring Diagram

Secondary Side Dimming (DMX)



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

Fixture Type _____

Project Name _____

Location _____