FIXTURE TYPE

PROJECT NAME

#### LOCATION



#### I Description

Indoor/Damp Dual-Output ( $2 \times 96W$ ) Class 2 Power Supply. 100-277V Input, with 0-10V, ELV, MLV, DMX and Incandescent dimming.

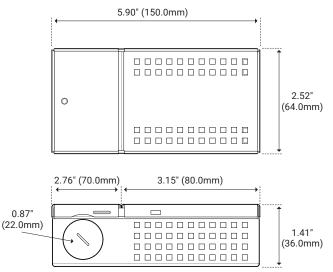
## | Features

- 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
- Suitable for Dry / Damp Location
- UL-Listed Class 2

## I Specifications

Series	ULV36
Input Voltage	100-277V AC
Output Voltage	24V DC / Constant Voltage
Max Wattage	36W
Temp Range	-20°F(-28°C) – 158°F (70°C)
Dimensions	5.90" × 2.52" × 1.41"
Classification	Class 2

## I Dimensions



## I Model List

Model Name	Rated Input Voltage	Rated Output Power	Rated Output Voltage	Output Current
	120-277 VAC			
ULV36	120 VAC (Phase Cut Dimming)	36 W	24 VDC	0-1500 mA × 2



# I Specification

Parameters	Symbols	Test Conditions / Comment	Min	Тур	Max	Units
INPUT						1
Input Voltage	VIN		108		305	VAC
Rated Input Voltage		Phase Cut Dimming		120		VAC
	VIN RATED	No Phase Cut Dimming	120		277	VAC
Input Frequency	fline		47		63	Hz
		Full Load,VIN = 120 VAC			0.40	А
Input Current	lin	Full Load,VIN = 230 VAC			0.20	А
		Full Load,VIN = 277 VAC			0.18	А
GENERAL CHARACTER	STICS					
		30% – 100% Load, VIN = 120 VAC	0.95			PF
Power Factor	PF	50% – 100% Load, VIN = 230 VAC	0.9			PF
		70% – 100% Load, VIN = 277 VAC	0.9			PF
Total Harmonic Distortion		30% - 100% Load, VIN = 120 VAC			20	%
	THD	50% - 100% Load, VIN = 230 VAC			20	%
		70% – 100% Load, VIN = 277 VAC			20	%
		Full Load, VIN = 120 VAC	82	83		%
Efficiency	η	Full Load, VIN = 230 VAC	83	83.5		%
		Full Load, VIN = 277 VAC	83	83.5		%
Turn On Delay Time	Ton_delay	Cold Start, No Dimmer		0.3	0.5	S
Leakage Current	ILeakage	VIN = 277 VAC / 60Hz			0.5	mA
OUTPUT						
Output Voltage	Vout	No Dimming	22.8	24	24.7	V
Output Current	IOUT		0		1500	mA
Line Regulation	IOUT-LINE				1	%
Load Regulation	IOUT-LOAD				1	%
Ripple Voltage	IOUT-RIPPLE	Full Load, (pk-to-pk) / (2 × Average)			10	%
Output Voltage Overshoot		Power ON			5	%
0-10V OR RESISTOR DI	MMING					
		ng manner that can be used to dim the c external control voltage source (0-10 VD				
when VDIM is below 0.6	V, the output voltag	OUT. When VDIM is 8-10 VDC, the outp ge is 5% VOUT.		maintains	100% VOL	JI, and
Absolute Maximum Voltage on 0-10 V Pin	VDIM		-2		15	V
Source Current on 0-10 V Dimming Pin	IDIM			100		uA
VDIM Voltage for Full Bright	VDIM-MAX		8			V
Output Duty Cycle	D0-10V	PWM Output	5		100	%



# I Specification

Parameters	Symbols	Test Conditions / Comment	Min	Тур	Max	Units
PWM DIMMING						
The PWM dimming is a d	imming manner th	at can be used to dim the output volta	ge via the d	duty cycle o	of PWM si	gnal.
The dimming range is 100 VOUT, and the output vol	0 % VOUT to 5 % V tage maintains 5 %	OUT. When the duty cycle is 80 % to 10 VOUT when the duty cycle below 6 %	)0 %, the ou	utput volta	ge reaches	; 100 %
PWM Frequency	fpwm		0.1		1	KHz
High Level Voltage of PWM Signal	VPWM-High		8	10	12	V
Lower Level Voltage of PWM Signal	VPWM-Low		0		1	V
Output Duty Cycle	DPWM	PWM Output	5		100	%
TRIAC DIMMING						
The unit is compatible wit	th leading-edge an	d trailing-edge dimmer.				
Input Voltage	VIN-TRIAC DIM			120		VAC
Output Duty Cycle	DTRIAC	PWM Output	0	-	100	%
Suggest Load Range	PSuggest	VIN = 120 VAC	5		36	W
PROTECTION					1	
Over Voltage Protection	VOVP	Latch Off Mode			30	V
Over Temperature Protection	TOTP	If the case temperature exceeds OTP point, the output voltage of the driver is automatically reduced.	100	105	110	
Short Circuit Protection	It will recover automatically after fault conditions is removed.					
ENVIRONMENT						
Storage Temperature	TStorage	Humidity: 5 % RH to 95 % RH	-40	-	+85	
Operating Relative Humidity	Ha	Non Condensing	10		90	%
OTHERS						
Life Time	TLife	Full Load, 120 VAC Input, 50 🛙 Case Temperature	50			kHrs
MTBF	TMTBF		200			kHrs
Dimension L $\times$ W $\times$ H	5.906" × 2.52" × 1.417" (150mm × 64mm × 36mm)					
SAFETY COMPLIANCE						
UL Listed		UL8750 Compliance to UL1310 Class	2, CSA-C22	2.2 No. 107	7.1	
EMC COMPLIANCE						
FCC Part 15B	Conducted Emission Test and Radiated Emission Test					



# I Typical Application

0-10V Dimming (120-277V)

