



DVP/DVPL Series

Dimmable Constant Voltage Driver Specifications

Project _____

Date _____ Type _____



Available Models¹

Standard

12 VDC

- DVP-30W-12VT
- DVP-60W-12VT
- DVP-96W-12VT

24 VDC

- DVP-30W-24VT
- DVP-60W-24VT
- DVP-96W-24VT

Linear

12 VDC

- DVPL-30W-12VT
- DVPL-60W-12VT
- DVPL-96W-12VT

24 VDC

- DVPL-30W-24VT
- DVPL-60W-24VT
- DVPL-96W-24VT

Part Number Breakdown

Example: DVPL-96W-24VT

Series	Housing	Output Power	Output Voltage	Dimming Type
DVP [DiodeDrive, Constant Voltage, Plastic]	blank [standard]	30W [30W]	12V [12 VDC]	T [TRIAC]
	L [linear]	60W [60W]	24V [24 VDC]	
		96W [96W]		

Overview

The DiodeDrive Thin Dimmable Constant Voltage LED Power Supply features a narrow profile, perfect for under-cabinet lighting or installation in tight spaces. It is compatible with most forward- and reverse-phase TRIAC dimmers. Its constant DC output voltage increases the longevity of LED lighting. The design includes separate input and output compartments for concealed wiring, each with terminal block connections. The input can be hardwired or connected using the included power cord with a 1-15P plug.

Features

- UL Class 2: 30W, 60W, 96W-24V
- UL Class P: 30W, 60W, 96W
- Standard or linear case with a thin profile for tight spaces
- Separate input/output compartments for concealed wiring
- Universal AC input, single DC output

Product Details

- IP20, suitable for damp locations
- Surge protection: L-N: 2kV
- Universal AC input: 100-277 VAC

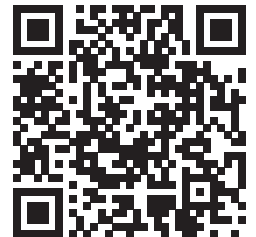
Certifications and Compliances

- UL Listed - UL 8750 (FKSZ)
- SELV compliant



Warranty

- 5-year warranty



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¹Contact customer service if interested in other options.



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Specifications

MODEL	DVP/DVPL-	30W-12VT	30W-24VT	60W-12VT	60W-24VT	96W-12VT	96W-24VT
OUTPUT							
Output Power	30W		60W		96W		
Output Voltage (±5%)	12 VDC	24 VDC	12 VDC	24 VDC	12 VDC	24 VDC	
Output Current	2500mA	1250mA	5000mA	2500mA	8000mA	4000mA	
Output Voltage Ripple LF (Vpp)	≤200mV		≤600mV		≤600mV		
Output Channels	1						
Line Regulation	±3%						
Load Regulation	±5%						
Flicker	Pst LM<1, SVM<0.4 (tested with constant voltage light strip)						
INPUT							
Input Voltage	100-277 VAC						
Input Frequency	50/60Hz						
Power Factor	≥0.95						
Input Current	100 VAC	400mA	800mA	1200mA			
	230 VAC	180mA	300mA	500mA			
	277 VAC	140mA	250mA	400mA			
Inrush Current (50% Ipeak), @277VAC	DVP-	15A peak, 260us duration	27A peak, 1ms duration		55A peak, 1.2ms duration		
	DVPL-		28A peak, 700us duration				
Start/Switchover/Turn Off	<1.5s (100 VAC)						
Switching Cycles	>50,000 switching cycles						
Efficiency	(See table on following pages)						
Total Harmonic Distortion	(See table on following pages)						
DIMMING							
Dimming Control	Forward Phase, Reverse Phase, ELV, MLV, TRIAC						
Dimming Range	0.1-100%						
SAFETY							
Withstand Voltage	I/P-O/P (LED): 3750 VAC						
Mains Surge Capability	L-N: 2kV						



DVP/DVPL Series

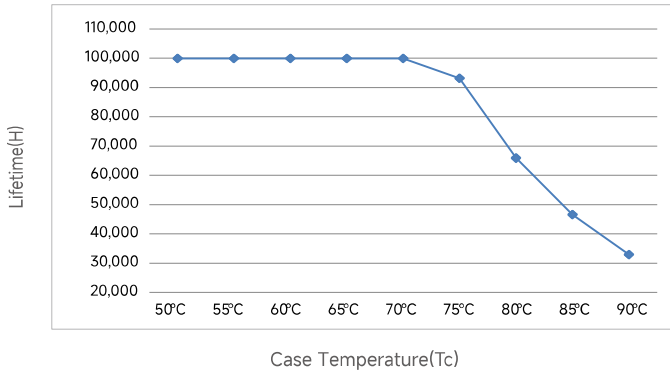
Dimmable Constant Voltage Driver Specifications

Specifications

SERIES	DVP/DVPL-
ENVIRONMENT AND LIFETIME	
IP Rating	IP20
Environmental Rating	Suitable for Damp Locations, Non-Weatherproof
Ambient Operating Temperature	-20 to 45°C (-4 to 113°F)
Maximum Tcase Temperature	80°C (176°F)
Storage Temp./Humidity	-40 to 80°C (-40 to 176°F), 5-85% RH, non-condensing
Mean Time Between Failures	MTBF=500,000h. (25°C) [MIL-HDBK-217F]
Lifetime (NOM)	100,000h
Vibration Resistance	10-500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes
Acoustic Noise	<25dB (30cm, Normal Operation)
MECHANICAL HOUSING	
Connection Type	Screw Terminal Block
Compatible Wire Gauge (I/O)	14-26AWG
Housing Color	Black

Expected Lifetime

Lifetime vs Case Temperature



- The lifetime of the LED driver is shown in the figure above (calculated based on the 90% survival rate).
- The relation between Tc and Ta temperature also depends on the luminaire design.



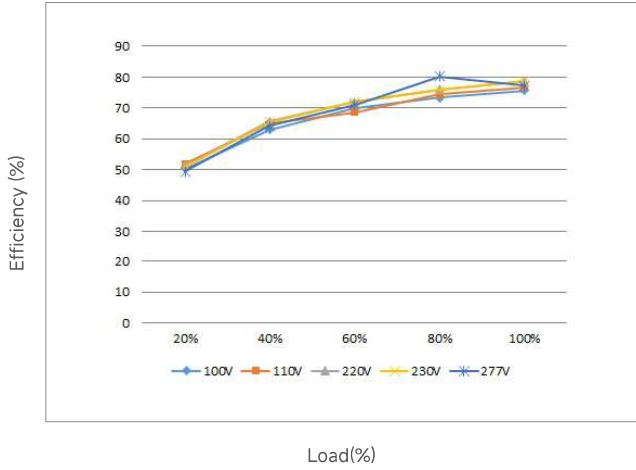
DVP/DVPL Series

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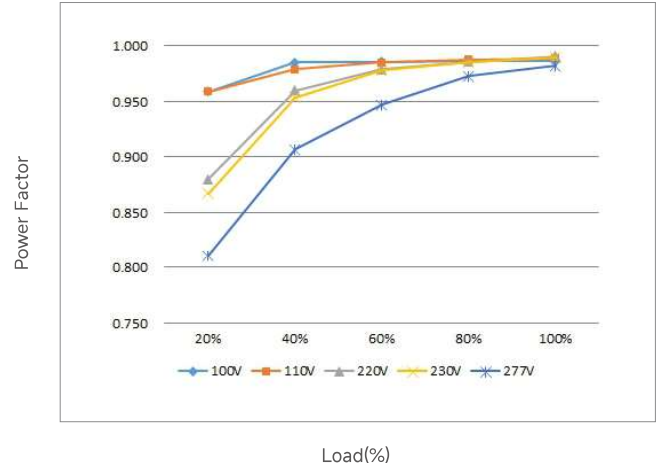
Performance vs Load

DVP/DVPL-30W-xT

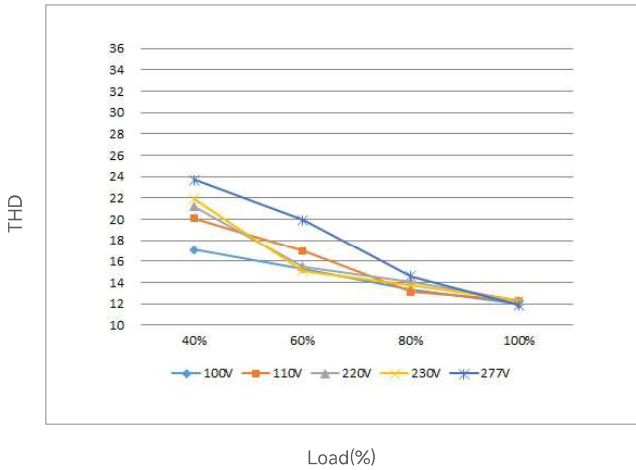
Efficiency vs Load



Power Factor vs Load



THD vs Load



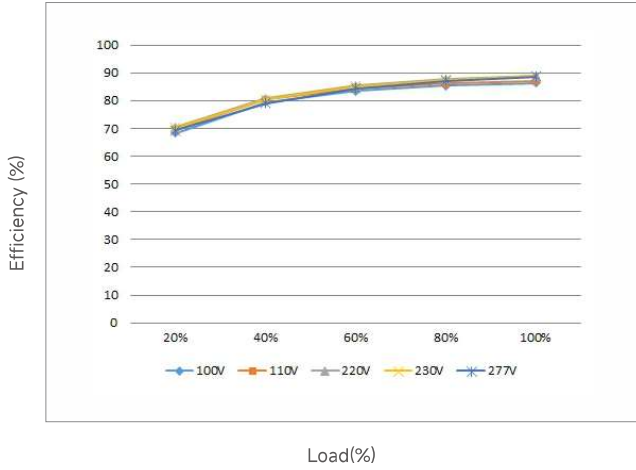
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Dimmable Constant Voltage Driver Specifications

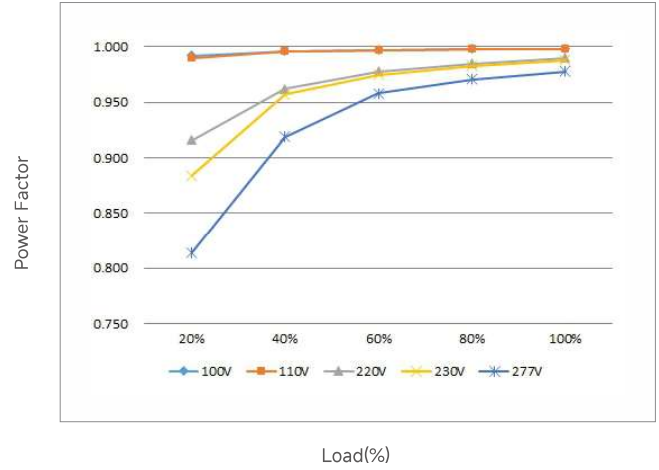
Performance vs Load

DVP/DVPL-60W-xT

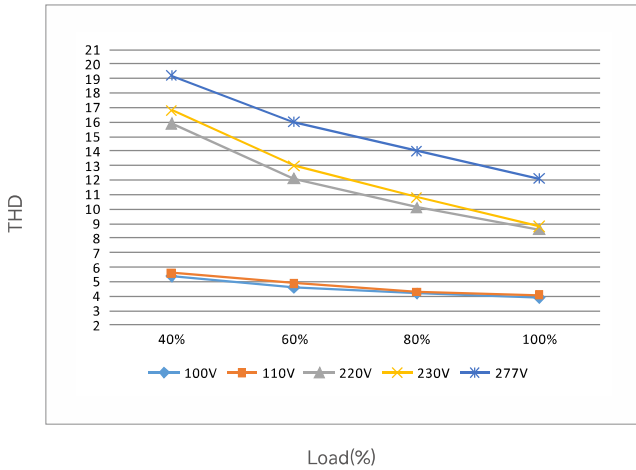
Efficiency vs Load



Power Factor vs Load



THD vs Load



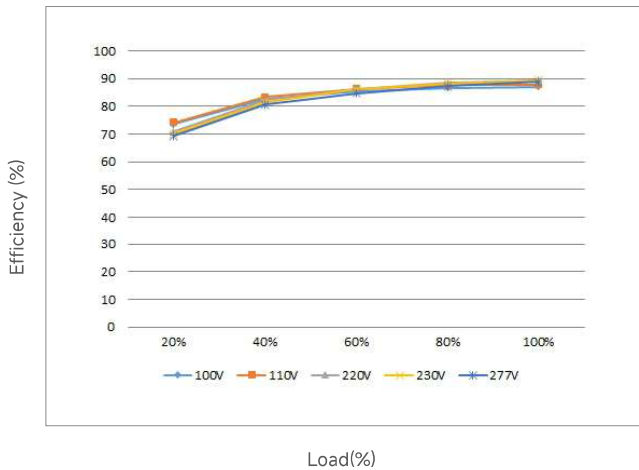
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Dimmable Constant Voltage Driver Specifications

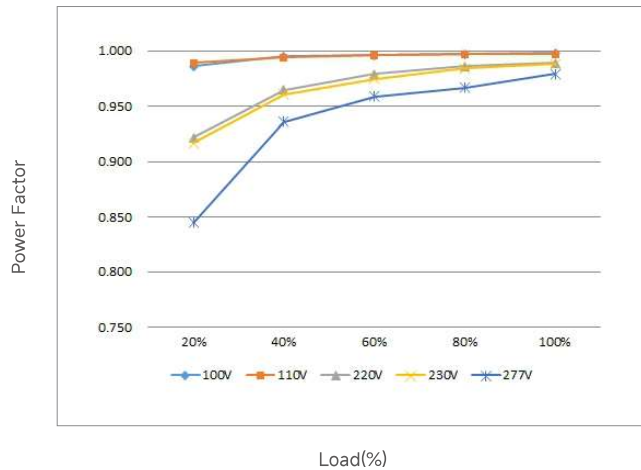
Performance vs Load

DVP/DVPL-96W-xT

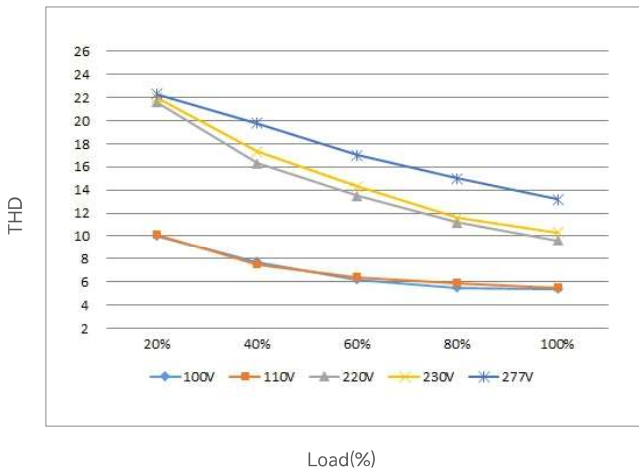
Efficiency vs Load



Power Factor vs Load



THD vs Load

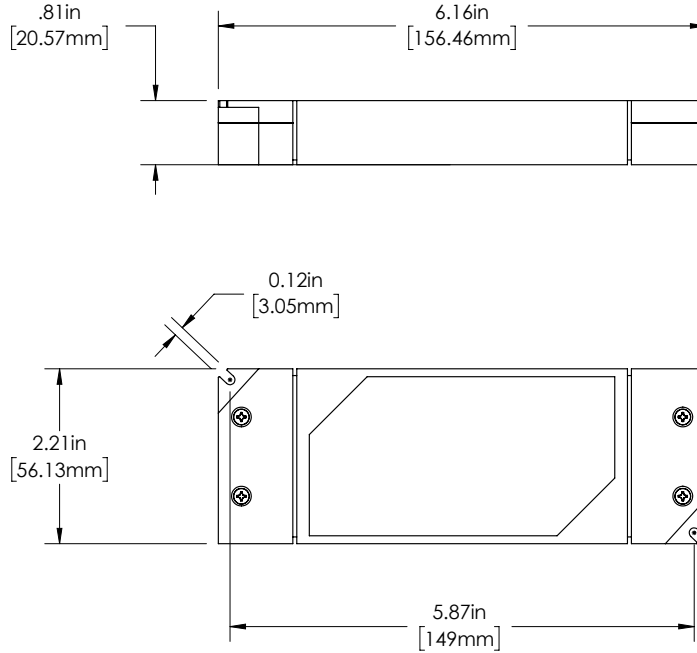


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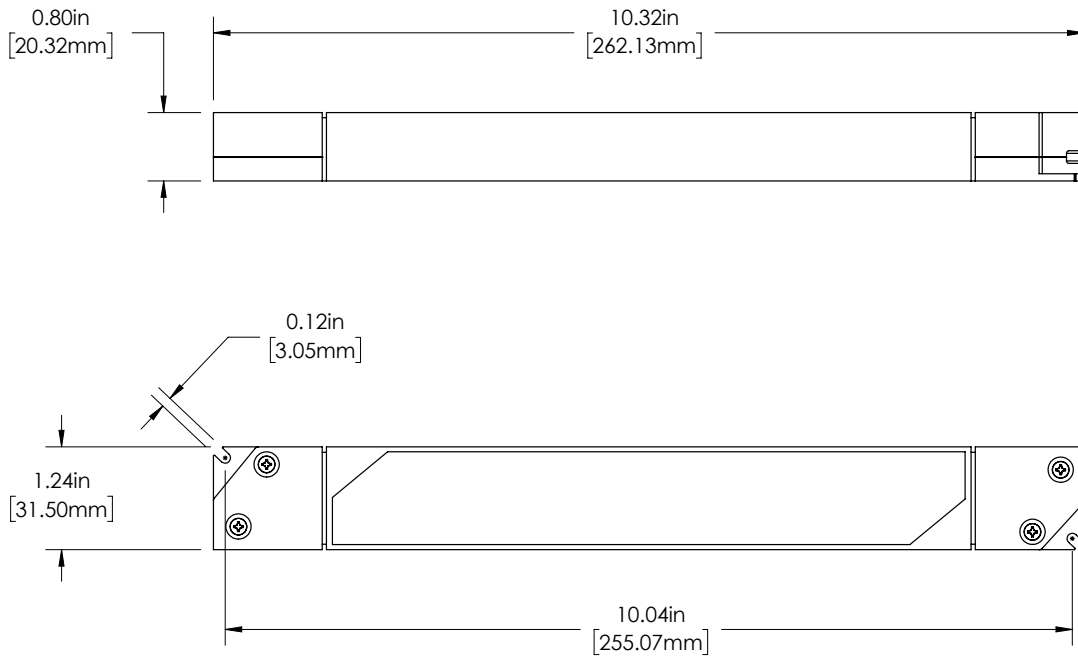
Dimmable Constant Voltage Driver Specifications

Dimensional Drawings

DVP-30W-xVT



DVPL-30W-xVT

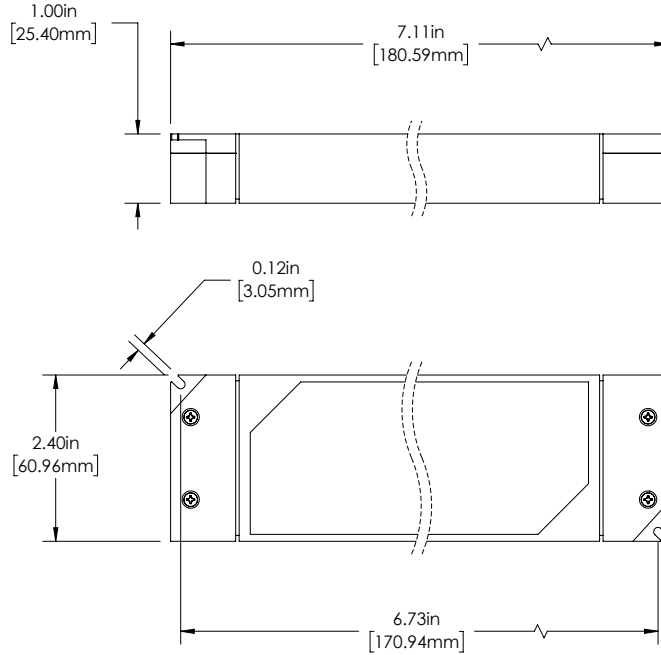


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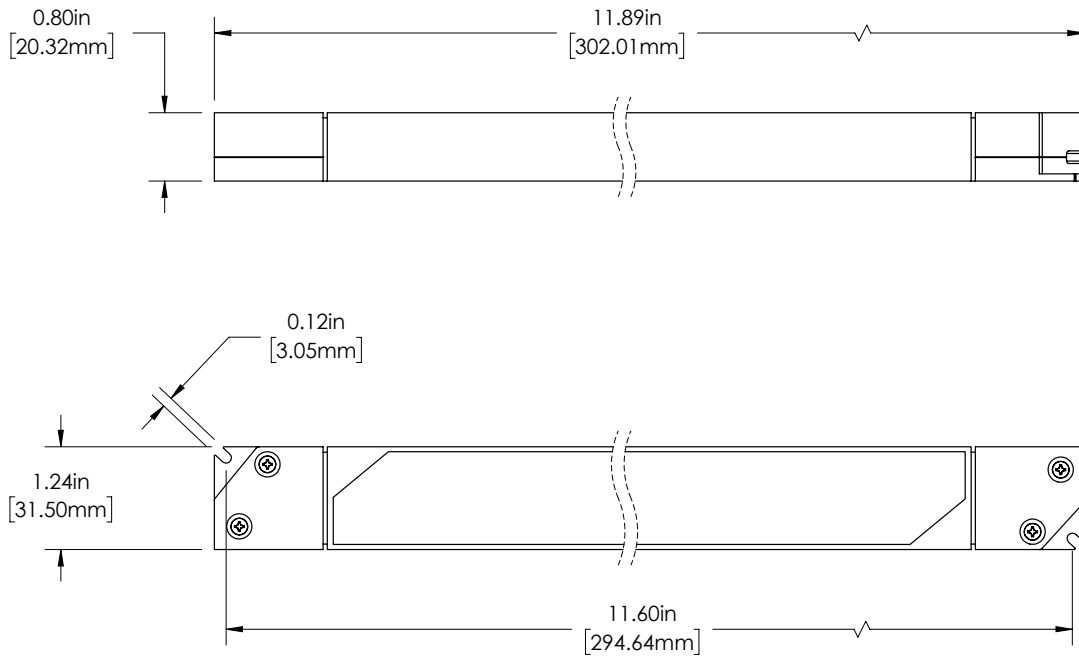
Dimmable Constant Voltage Driver Specifications

Dimensional Drawings

DVP-60W-xVT



DVPL-60W-xVT

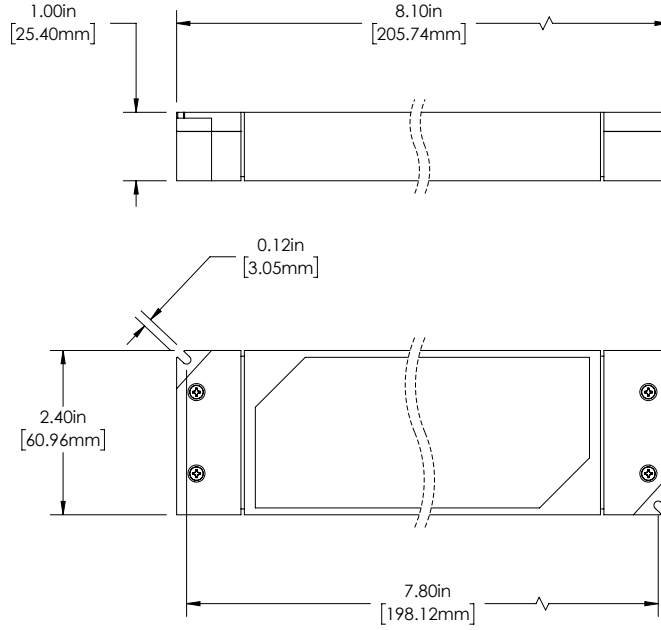


DVP/DVPL Series

Dimmable Constant Voltage Driver Specifications

Dimensional Drawings

DVP-96W-xVT



DVPL-96W-xVT

