



CVPS-100WM-24V-416



### Available Models<sup>1</sup>

12 VDC Output

24 VDC Output

CVPS-100WM-12V-832

CVPS-100WM-24V-416

### Part Number Breakdown

Example: CVPS-100WM-24V-416

Series	Output Wattage	Driver Case	Output Voltage	Output Current
CVPS [Constant Voltage]	100W [100 W]	M [Aluminum]	12V [12 VDC]	832 [4.16 A (x2)]
			24V [24 VDC]	416 [4.16 A (x1)]

### Overview

This DiodeDrive switching power supply is designed to deliver constant voltage output. The driver is fully enclosed in a waterproof aluminum case, protecting it from dust and moisture and ensuring a long lifespan. Reliable and widely applicable, it powers technology with high energy efficiency. It has multiple integrated protections for safe operation in indoor and outdoor applications. Outdoor use requires additional waterproofing at wire connections.

### Features

- UL Class 2 Power Supply
- Universal 100-277 VAC input
- Energy-saving high-efficiency operation
- Waterproof housing for indoor or outdoor locations
- Protections: short circuit, overload, and over temperature

### Product Details

- Switching power supply; no floating ground
- Designed for constant voltage output
- Single, Double, or Triple Class 2 outputs
- IP68 waterproof

### Certifications and Compliances

- UL Recognized - UL 8750 (FKSZ2)
- FCC compliant



### Applications

- Sign Lighting
- Stage & Theaters
- Strip Lights

### Optional Accessories

- 6ft, 5-15P power cord (POWERCORD)

### Warranty

- 5-year warranty





# CVPS Series

## Constant Voltage Power Supply Specifications

### Specifications

Model CVPS-	100WM-12V-832	100WM-24V-416
<b>OUTPUT</b>		
Output Voltage (±5%)	12 VDC	24 VDC
Output Current (max)	4.16A per channel (x2)	4.16A per channel (x1)
Output Power	100W	100W
Output Ripple and Noise	150mV	240mV
Line Regulation	±1%	
Load Regulation	±5%	
Start Time	Cold start ≤ 3000mS	
<b>INPUT</b>		
Rated Input Voltage Range	100-277 VAC	
Input Frequency Range	50-60Hz	
Leakage Current	<0.75 mA (@277 VAC)	
Power Factor	≥ 0.95	
Total Harmonic Distortion	THD < 20%	
Input Current (max)	1.6A	1.6A
Inrush Current (cold start)	≤ 80A	≤ 80A
Efficiency (TYP)	≥ 90%	≥ 90%
<b>DIMMING</b>		
Dimming Control	Non-dimmable	
<b>PROTECTIONS</b>		
Overcurrent	Hiccup mode, automatic recovery after failure is removed	
Short Circuit	Hiccup mode, automatic recovery after failure is removed	
Overvoltage	Auto power-off when over voltage, manual power cycle for recovery after fault is removed	
Overtemperature	Auto power-off when over temperature, manual power cycle for recovery after fault is removed	





# CVPS Series

## Constant Voltage Power Supply Specifications

### Specifications

Model CVPS-	100WM-12V-832	100WM-24V-416
<b>ENVIRONMENTAL</b>		
IP Rating	IP68	
Environmental Rating	Suitable for Wet Locations, Waterproof	
Ambient Operating Temperature	-40 to 60°C (-40 to 140°F)	-40 to 60°C (-40 to 140°F)
Case Temperature (max)	Tc: 90°C (194°F)	
Operating Humidity	20-95% relative humidity (non-condensing)	
Storage Temperature	-40 to 80°C (-40 to 176°F)	
Storage Humidity	10-95% relative humidity	
Vibration	10-500Hz, 5G, 30 minutes (for X, Y, Z each axis)	
<b>RELIABILITY</b>		
MTBF	≥ 50000 hours (25°C) [MIL-HDBK-217F]	
Warranty	5 years	
<b>SAFETY</b>		
Safety Standards	UL8750	
Dielectric Strength (Hi-Pot)	I/P-O/P	3.75k VAC/10mA/3S
	I/P-Case	1.8k VAC/10mA/3S
Insulation Resistance	100MOhm Min./500 VDC/3S	
Grounding Resistance	100MOhm Max.	
EMC	FCC Part 15, Subpart B	
<b>MECHANICAL HOUSING</b>		
Housing Color	Gray	
Material	Aluminum Housing	
Weight	1.6lb (0.73kg)	1.55lb (0.7kg)



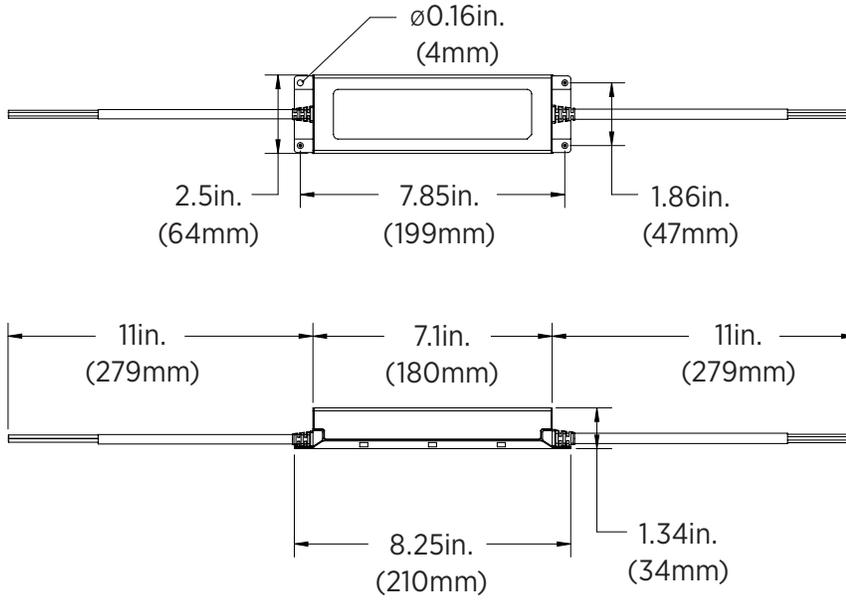
# CVPS Series

Constant Voltage Power Supply Specifications

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## Dimensional Drawings

CVPS-100WM-x-x\*



\*Output number varies by model

