CVPS Series

Constant Voltage Power Supply Specifications

Project_____

Date_____ Type_____

CVPS-240WH-24V-1000

Voltage 100–277 VAC | Voltage 12 or 24 VDC Available | 2 CLASS 2 | IP68 | 7 yr WARRANTY

Available Models[1]

- ☐ CVPS-100WH-12V-832
- ☐ CVPS-240WH-24V-1000

Part Number Breakdown

Example: CVPS-150WH-24V-624

Series	Output Wattage	Driver Case	Output Voltage	Output Current
CVPS [Constant Voltage Power Supply]	**100W** [100 W]	**H** [Extruded Aluminum]	**12V** [12 VDC]	**832** [4.16 A output (x2)]
	240W [240 W]		**24V** [24 VDC]	**1000** [2.5 A output (x4)]

Overview

The DiodeDrive Class 2 switching power supply is fully enclosed with a heavy duty case to withstand water and debris for a long lifespan. Guaranteed with a 7-year warranty, the reliable device is designed for constant voltage operation. Widely applicable, use it to power applications inside or outside without energy waste or risk of circuit overload.

Features

- Universal AC input; dual or quadruple output
- IP68 waterproof housing
- UL Class 2 power supply
- Protected against short circuit, overload, and over voltage

Product Details

- Switching power supply; no floating ground
- Designed for constant voltage operation
- 100-277 VAC input voltage range

Certifications and Compliances

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

Applications

- Sign Lighting
- Stage & Theaters
- Strip Lights

Optional Accessories

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

Warranty

- 7-year warranty

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[1]Contact customer service if interested in other options.

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Specifications are subject to change without notice.

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Specifications

Model	CVPS-100WH-12V-832	CVPS-240WH-24V-1000
OUTPUT		
Output Voltage (±5%)	12V	24V
Output Current (max)	4.16A per channel (x2)	2.5A per channel (x4)
Output Power	100W	240W
Output Ripple and Noise	150mV	240mV
Line Regulation	±1%	
Load Regulation	±5%	
Start Time	Cold start ≤ 3000mS	
INPUT		
Rated Input Voltage Range	100–277 VAC	
Input Frequency Range	50–60Hz	
Leakage Current	<0.75mA (@277 VAC)	
Power Factor	≥0.95	
Total Harmonic Distortion	THD<20%	
Input Current (max)	1.6A	3.3A
Inrush Current (cold start)	≤70A	≤1000A
Efficiency (TYP)	≥ 90%	≥ 93%
DIMMING		
Dimming Control	Non-dimmable	
PROTECTIONS		
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	

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Specifications Cont.

Model		CVPS-100WH-12V-832	CVPS-240WH-24V-1000
ENVIRONMENTAL			
IP Rating		IP68	
Environmental Rating		Suitable for Wet Locations, Waterproof	
Ambient Operating Temperature		-40 to 60°C (-40 to 140°F)	-40 to 50°C (-40 to 122°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)	
RELIABILITY			
MTBF		≥ 70000 hours (25°C) [MIL-HDBK-217F]	
Warranty		7 years	
SAFETY			
Safety Standards		UL 8750	
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; EN IEC 55015	
MECHANICAL HOUSING			
Material		Aluminum Housing	
Weight		1.95lb (0.88kg)	2.15lb (0.98kg)

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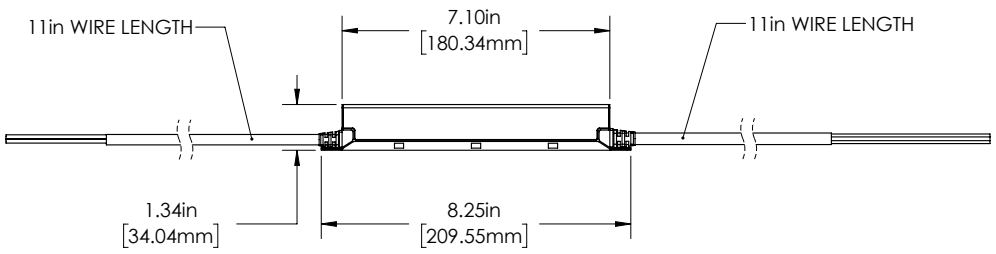
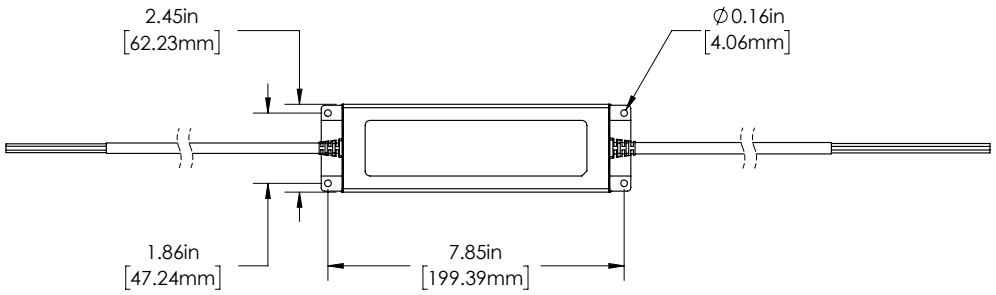
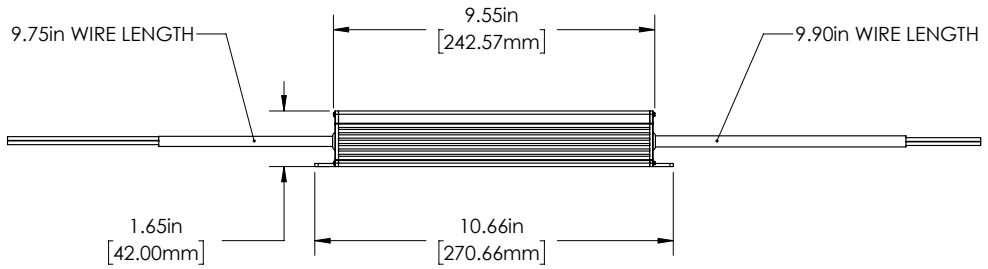
Dimensional Drawings

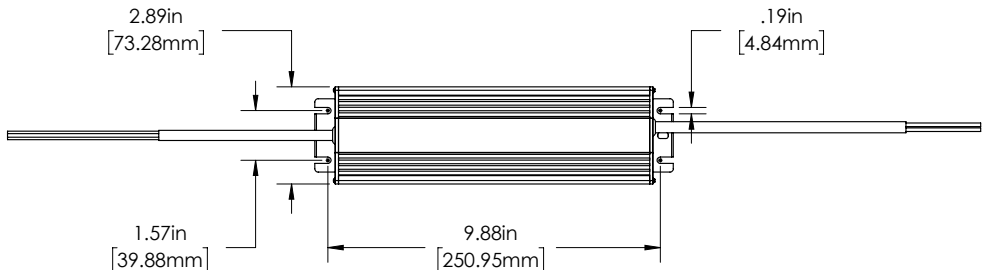
CVPS-100WH-12V-832





CVPS-240WH-24V-1000





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