



DVMM-288W-24V-5JM



Available Models¹

- DVMM-60W-24V-5JCS DVMM-96W-24V-5JF
- DVMM-96W-24V-5JCS DVMM-288W-24V-5JM

Part Number Breakdown

Example: DVMM-96W-24V-5JCS

Series	Output Wattage	Output Voltage	Dimming	Housing	Feature
DVMM [DiodeDrive, Constant Voltage, Metal Enclosed, NEMA 4X]	60W [60 watts]	24V [24 VDC]	5 [5-in-1]	J [Junction Box]	CS [CCT Selection switching]
	96W [96 watts]				F [Output Frequency Adjustable]
	96W [96 watts]				M [Multi-output]
	288W [3x 96 watts]				

Overview

Use the 5-in-1 dimmable DiodeDrive Constant Voltage power supply to regulate light output using TRIAC, 0-10V, 1-10V, PWM, or potentiometer dimming controls. With up to nine knockouts and mounting tabs on two sides, it can be mounted in multiple orientations to fit your installation requirements. The snap-close, single-hinge junction box simplifies wiring, and the optional power cord ensures easy integration into any system. The output fine-tuning knob allows you to set the maximum output voltage to compensate for voltage drop on long wiring runs or set a 17-25 VDC maximum voltage output for your application. You can cycle through warm, natural, and cool color temperatures by switching the power on and off on CS models.

Features

- 5-in-1 Dimming: TRIAC, 0-10V, 1-10V, PWM, and Potentiometer
- NEMA 4X rated for wet, damp, and dry locations
- Tool-free snap-close junction box for easy wiring
- Optional 18-gauge powercord

Product Details

- Flat or side, horizontal or vertical mounting options
- Black aluminum housing
- IP65 waterproof
- Input: 110-277 VAC; Adjustable output: 24 VDC (17-25V)
- PWM frequency: 4000Hz constant **or** 250-20,000Hz adjustable (DVMM-96W-24V-5JF only)

Certifications and Compliances

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



Applications

- Cabinets
- Cove Lighting
- Home Interiors
- Light Bars
- Outdoor Kitchens
- Outdoor Signs
- Outdoor Advertisements
- Pavilions
- Sign Lighting
- Stage & Theaters
- Strip Lights
- Toe Kick Lighting
- Trade Shows
- Television Studios
- Videography Lighting

Optional Accessories

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

Warranty

- 5-year warranty





DVMM Series

Junction Box Power Supply Specifications

Specifications

MODEL	DVMM-	60W-24V-5JCS	96W-24V-5JCS	96W-24V-5JF	288W-24V-5JM
OUTPUT					
Output Power		60W	96W	96W	288W (3x 96W)
Output Current		2500mA	4000mA	4000mA	12000mA (3x 4000mA)
Output Voltage (±0.5V)		24 VDC			
Output Voltage Range		17-25 VDC			
Voltage Regulation		±0.5%			
Load Regulation		±1%			
Output Channels		1			3
INPUT					
Input Voltage		110-277 VAC			
Input Frequency		50/60Hz			
Efficiency (TYP)	@120 VAC	87%	89%	89%	91%
	@277 VAC	88%	90%	90%	92%
AC Current (TYP)		650mA	1020mA	1020mA	2970mA
Inrush Current (TYP)		20A	25A	25A	35A
Power Factor (TYP)		0.99@120 VAC, 0.98@277 VAC			
Total Harmonic Distortion		THD<15% (@100% load)			
Leakage Current		<0.5mA			
DIMMING					
Dimming Control		TRIAC (MLV and ELV)/0-10V/1-10V/10V PWM/Potentiometer			
Dimming Range		0.1-100%			
Output Type		PWM			
Output Frequency		4000Hz	4000Hz	250-20000Hz	4000Hz
PROTECTIONS					
Short Circuit		Hiccup mode, recovers automatically after fault condition is removed.	Shut down O/P voltage, re-power to recover after fault condition is removed.		
Overload		Intelligently reduce O/P voltage, auto recovery or re-power to recover			≤110% Hiccup mode, auto recovery after fault condition is removed.
Overtemperature	100°C±10°C	Intelligently reduce O/P voltage and current, auto recovery once overload is removed.	Shut down O/P voltage, automatically recovers after cooling		Intelligently reduce O/P V and I, auto recovers once overload removed





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Junction Box Power Supply Specifications

Specifications

ENVIRONMENTAL	
IP Rating	IP65
NEMA Enclosure Type	NEMA 4X
Environmental Rating	Suitable for Wet Locations, Waterproof
Working Humidity	20–95% RH, non-condensing
Ambient Operating Temperature	-40 to 60°C (-40 to 140°F)
Storage Temp./Humidity	-40 to 90°C (-40 to 194°F), 10–95% RH
Temperature Coefficient	±0.03%/°C (0–50°C)
Vibration Resistance	10–500Hz, 5G 10min./1 cycle, period for 60 min. each along X, Y, Z axes
SAFETY	
Standards	UL8750, Class 2 Class P
Withstand Voltage	I/P-O/P: 1.88KVAC
Isolation Resistance	I/P-O/P: 100MΩ/500VDC/25°C/70% RH
EMC Emission	FCC Part 15 Subpart B
MECHANICAL	
Connection Type	Pigtail
Housing Material	Aluminum



DVMM Series

Junction Box Power Supply Specifications

Wire Specifications

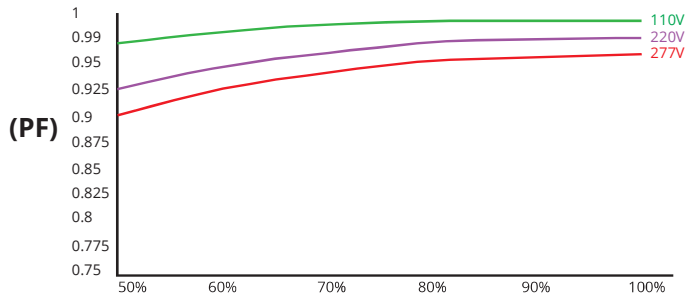
Table 1

	INPUT			OUTPUT			0/1-10V DIMMING		
	Function	Color	Gauge	Function	Color	Gauge	Function	Color	Gauge
DVMM-x-24V-5Jx	AC L	Black	18AWG	DC+	Red	(Table 2)	Dim+	Purple	18AWG
	AC N	White	18AWG	DC-/CW-	Black	(Table 2)	Dim-	Pink	18AWG
	Ground	Green	18AWG	WW-	Yellow	(Table 2)	/	/	/

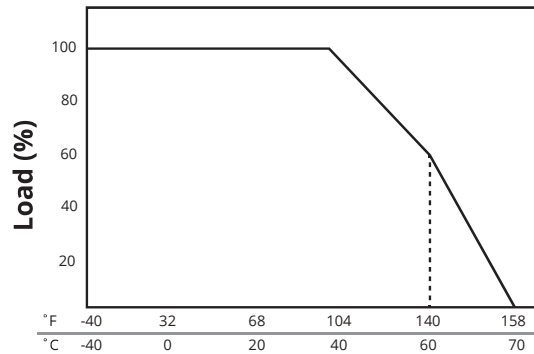
Table 2

Model	DVMM-60W-24V-5JCS	DVMM-96W-24V-5JCS	DVMM-96W-24V-5JF	DVMM-288W-24V-5JM
Output Wire Gauge	18AWG	16AWG	16AWG	16AWG
WW-	18AWG	16AWG	/	/

PFC Load Graph



Load vs Ambient Temperature



DVMM Series

Junction Box Power Supply Specifications

Dimmer Compatibility List

Brand	Model	Dimming Range	Type	Input Voltage
LUTRON	SCL-153PR-WH	0-100%	MLV/TRIAC	120 VAC
	DVCL-153PR-WH	0-100%	MLV/TRIAC	120 VAC
	DVWCL-153PH-LA	0-100%	MLV/TRIAC	120 VAC
	CTCL-153PDH-LA	0-100%	MLV/TRIAC	120 VAC
	DVCL-253P	0-100%	MLV/TRIAC	120 VAC
	TGCL-153PR-WH	5-100%	MLV/TRIAC	120 VAC
	TGCL-153PH-WH	5-100%	MLV/TRIAC	120 VAC
	MACL-153MH-LA	0-100%	MLV/TRIAC	120 VAC
	DVELV-303P	0-100%	ELV	120 VAC
	HQRD-6NA	0-100%	ELV/MLV/TRIAC	120 VAC
	MRF2-6ELV-120-WH	5-100%	ELV	120 VAC
	NTELV-600-WH	6-100%	ELV	120 VAC
	VTELV-600-XXX	6-100%	ELV	120 VAC
	SELV-600-WH	6-100%	ELV	120 VAC
	NTELV-300	7-100%	ELV	120 VAC
	MAELV-600	5-100%	ELV	120 VAC
	MSELV-600M	5-100%	ELV	120 VAC
	MRF2-6ELV-120	5-100%	ELV	120 VAC
	RRA-6NA	6-100%	ELV	120 VAC
	CL MACL-153MH	8-100%	MLV/TRIAC	120 VAC
	SELV-300P	7-100%	ELV	120 VAC
	MIR-600M	9-100%	MLV/TRIAC	120 VAC
	CT-600PR-IV	5-100%	MLV/TRIAC	120 VAC
	CT-600PR-WH	5-100%	MLV/TRIAC	120 VAC
	CT-103PR-WH	15-100%	MLV/TRIAC	120 VAC
	DV-600PR-BL	8-100%	MLV/TRIAC	120 VAC
	DV-600PR-WH	9-100%	MLV/TRIAC	120 VAC
	TG-600PR-LA	8-100%	MLV/TRIAC	120 VAC
	TG-600PR-IV	8-100%	MLV/TRIAC	120 VAC
	TG-600PR-WH	7-100%	MLV/TRIAC	120 VAC
	S-600PR-WH	10-100%	MLV/TRIAC	120 VAC
	MRF2-6ND-120-AL	8-100%	MLV/TRIAC	120 VAC
	MRF2-6CL-GR	5-100%	MLV/TRIAC	120 VAC
	DZ6HD	5-100%	MLV/TRIAC	120 VAC
PD-6WCL	0-100%	MLV/TRIAC	120 VAC	
PD-5NE-WH	0-100%	MLV/TRIAC	120 VAC	



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Dimmer Compatibility List

Brand	Model	Dimming Range	Type	Input Voltage
LUTRON	DVLV-600P	5-100%	MLV/TRIAC	120 VAC
	DVCL-153P-WH	0-100%	MLV/TRIAC	120 VAC
	MA-PRO	0-100%	MLV/TRIAC	120 VAC
	TG-10PR-WH	8-100%	MLV/TRIAC	120 VAC
	DVSTV-453P	0-100%	0-10V	120-277 VAC
	0-10V DDTV	0-100%	0-10V	120 VAC
LEVITON	Model IPE04	8-100%	ELV	120 VAC
	Model VPE06	5-100%	ELV	120 VAC
	Model VPE04	5-100%	ELV	120 VAC
	VPE06	6-100%	ELV	120 VAC
	VPI06-1LZ	8-100%	MLV/TRIAC	120 VAC
	TTI06-1LZ	9-100%	MLV/TRIAC	120 VAC
	Model IPL06	6-100%	MLV/TRIAC	120 VAC
	DZ6HD	6-100%	MLV/TRIAC	120 VAC
	Model 6674	6-100%	MLV/TRIAC	120 VAC
	Model 6672	10-100%	MLV/TRIAC	120 VAC
	TBL03	8-100%	MLV/TRIAC	120 VAC
	Model 6602	6-100%	MLV/TRIAC	120 VAC
	Model 6683	5-100%	MLV/TRIAC	120 VAC
	IP710	0-100%	0-10V	120 VAC
	DS710	0-100%	0-10V	120 VAC
	DD710	0-100%	0-10V	120 VAC
LEGRAND	RHCL453PNICCV6	5-100%	MLV/TRIAC	120 VAC
	WSCL450TCCCV4	8-100%	MLV/TRIAC	120 VAC
	LSCL453PLACCV4	6-100%	MLV/TRIAC	120 VAC
CRESTRON	SELV-300P	5-100%	ELV	120 VAC
	CLS-EXP-DIMU	7-100%	ELV/MLV/TRIAC	120-277 VAC
	DIN-1DIMU4	5-100%	ELV/MLV/TRIAC	120-277 VAC
	CLX-1DELV4	8-100%	ELV	120 VAC
	CLW-DELVEX-E	6-100%	ELV	120 VAC
	CLW-DELVEX-P	5-100%	ELV	120 VAC
	CLW-DELVEX-P-W-S	6-100%	ELV	120 VAC
	CLX-2DIMFLV8	0-100%	0-10V 100 mA	120 VAC
	DIN-4DIMFLV4	0-100%	0-10V 60 mA	120-277 VAC
	CLS-EXP-DIMFLV	0-100%	0-10V 70 mA	120-277 VAC
	GLX-DIMFLV8	0-100%	0-10V 60 mA	120-277 VAC

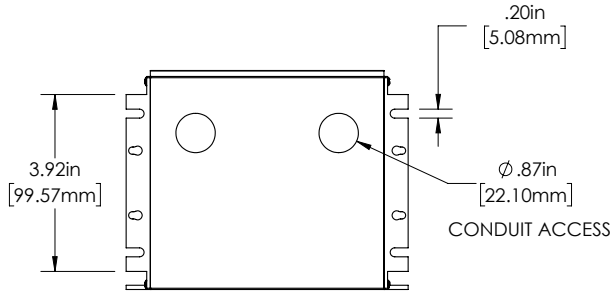
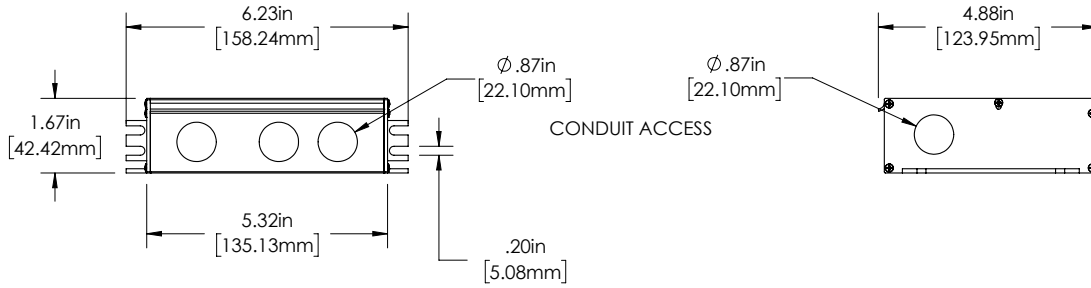


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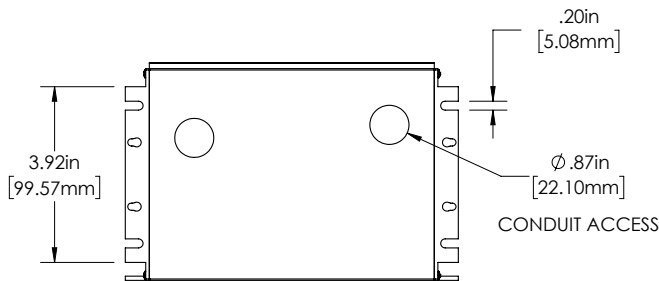
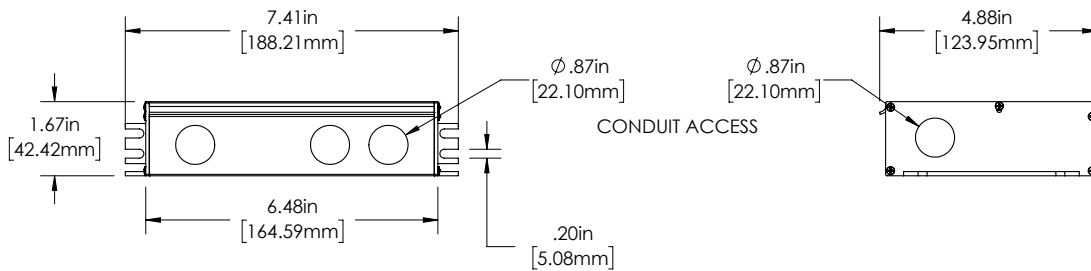
Junction Box Power Supply Specifications

Dimensional Drawings

DVMM-60W-24V-5JCS



DVMM-96W-24V-5Jx



DVMM Series

Junction Box Power Supply Specifications

Dimensional Drawings (cont.)

DVMM-288W-24V-5JM

