

75W Constant Voltage Driver



Approve



Features

- High efficiency up to 88%
- Built-in active PFC function
- All-Around Protection: OLP, SCP, OVP, OTP
- Waterproof(IP67) and Dry/Damp/Wet Location
- Input Surge Protection:4kV line-line
 6kV line-ground
- Compact Metal Case, Free Air Convection
- High Reliability & Long Lifetime & 5 Years
 Warranty

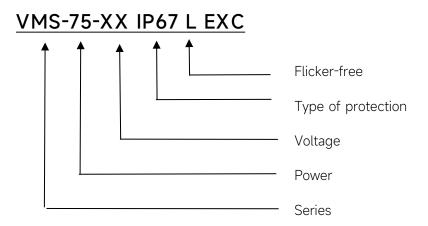
Applications

High ceiling, tunnel lights, outdoor lights

Description

VMS-75-XX IP67 L EXC series is a 75W, constant voltage IP67 LED driver that operates from 198-264Vac input with 12/24/36/42/48V output voltage, excellent power factor and THD feature. With it's dimensions from 143.4x47x31.8mm. This series of products is specially designed for direct power supply applications such as LED strips. The high efficiency of these drivers and compact metal case enable them to run cooler, significantly improving reliability and extending product life. To ensure trouble-free operation, protection is provided against input surge, output over voltage, short circuit, and over temperature.

◆ Model code



Stock code: 002922





♦ Specification

_	Constant Voltage	12VDC	24VDC	36VDC	42VDC	48VDC			
Output	Current Range	0-6.25A	0~3.125A	0-2.08A	0-1.78A	0-1.56A			
	Unload voltage Max.(VDC)	12.6VDC	25.2VDC	37.8VDC	44.1VDC	50.4VDC			
	Voltage Accuracy	±5%							
Output	Output HF current ripple(>1KHz)	±5%	±5%						
	Output LF current ripple(≤120Hz)	±5%							
	SVM	≤0.4							
	P _{st}	ৰ1							
	Efficiency(Typ.)	88%							
	Rated input voltage	220-240VA	С						
	Range of input voltage	198-264VAC							
	Maximum voltage	300VAC@1	h maximum,ur	nit might not ope	erate in this abn	ormal condition			
	Frequency(Hz)	50/60 Hz							
	Displacement factor	≥0.95							
Input	Power Factor	>0.96@Full load,230V							
	Input Current max	0.5A							
	Start-up time	< 0.5S							
	No Load Power	≤0.5W							
	THD (Typ.)	<10%@Full load,230V							
		110-150%							
Protection	Over Load Protection	YES/Auto Resume							
	Short circuit Protection	YES/Auto R	lesume						
	Surge capability (L-N)	4KV							
capability	Surge capability (L/N-Ground)	6KV							
	Operating Temperature	-40°C~+55°C							
	Humidity	20%-90%R	%-90%RH						
	Tc	90°C							
Environment	Storage Temperature	-40°C~+85°C							
	Life time	>50000h@Tc=75°C							
	Noise	≤25dB(A)@20cm							
Surface	Dimension	143.4X47X3	1.8(LXWXH)mm	1					
Surface	material	metal case							
	Safety	GB19510. 1, GB19510. 14;IEC61347- 1, IEC61347-2- 13;AS/NZS 61347- 1, AS/NZS 61347-2- 13;AS 61347.2.13;EN62384;							
Standards	EMC	GB/T17743, GB17625. 1;EN55015, EN61000-3-2, EN61000-3-3,							
Jiai iuai us		EN61547;EN55015, EN61000-3-2, EN61000-3-3, EN61547,EN				EN			
		62493;EN61000-4-5;EN61000-4-2,3,4,5,6,8,11, EN61547							
	ErP	ErP2.0 EU 2	2019/2020						

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VMS-75-XX IP67 L EXC

	RoHS	RoHS (2011/65/EU) (EU)2015/863						
	1.All parameters NOT special	1.All parameters NOT specially mentioned are measured at 230Vac input and 25°C of ambient temperature.						
	2.Ripple & Noise are measur capacitor.	2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 µF parallel capacitor.						
	3.This LED driver meets the	3.This LED driver meets the EMI specifications above, but EMI performance of a lighting fixture also depends on the other devices on						
	the fixture.							
.	4.The over-temperature pro	4.The over-temperature protection of the product is provided by the IC.						
Note	5.The start-up time is measured under cold start-up, frequent switching on and off may extend the start-up time to different							
	degrees.							
	6.The LED driver complies w	th the IP67 (and lower) protection rating standards, but is only suitable for indoor damp environments or						
	outdoor sheltered locations (e.g., with rain protection). All products must not be used underwater or buried in the ground.						
		are complied with EMI regulations. Since they are belong to component and will be installed inside ey are integrated into a system, the EMI characteristics of the system must be re-verified again.						

◆ Model list

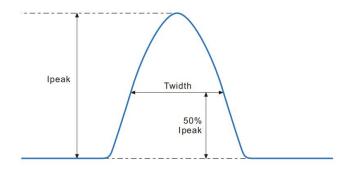
Model	Output Voltage	Output Current Range	Max output Power	Power Factor	Typical Efficiency
VMS-75-12 IP67 L EXC	12V	0~6.25A	75W	0.95	88%
VMS-75-24 IP67 L EXC	24V	0~3.125A	75W	0.95	88%
VMS-75-36 IP67 L EXC	36V	0-2.08A	75W	0.95	88%
VMS-75-42 IP67 L EXC	42V	0-1.78A	75W	0.95	88%
VMS-75-48 IP67 L EXC	48V	0-1.56A	75W	0.95	88%

Note:

Test condition: 230Vac/50Hz, at full Load;

♦ Inrush Current

Ipeak	Twidth	B10	B16	B20	C10	C16	C20
40.6A	184µs	11pcs	17pcs	22pcs	16pcs	25pcs	32pcs



Remarks:

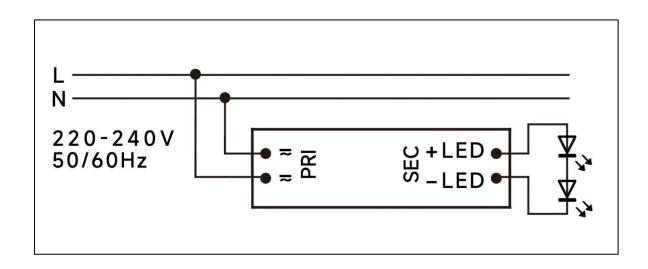
1. The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.

2.Different brands and models of miniature circuit breakers, the number of drives mounted will be slightly different.

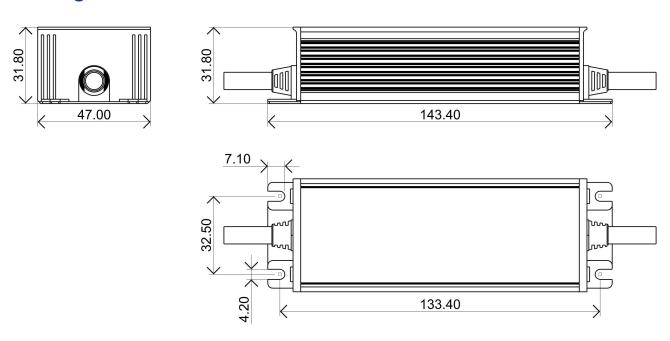
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♦ Wiring diagram



♦ 2D diagram



TYPE	Total Length	Outside Color	Inside Wires Color	Wire Model/Diameter
Input wire	0.36M	Black	Brown/Blue	H05RN-F/2x1.0mm ²
Output wire	0.36M	Black	Red/Black	H05RN-F/2x1.0mm ²

Note: Wire length of input and output can be changed as customer's requirement

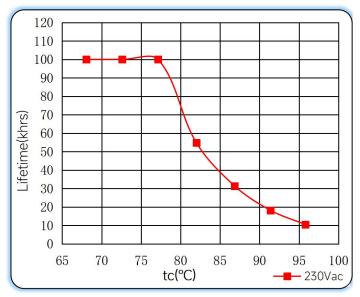
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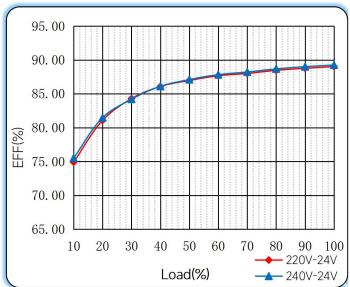


◆ Curve for VMS-75-XX IP67 L EXC

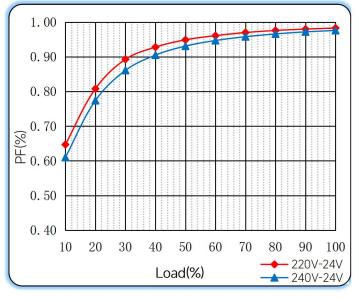
Lifetime vs. Temperature Curve



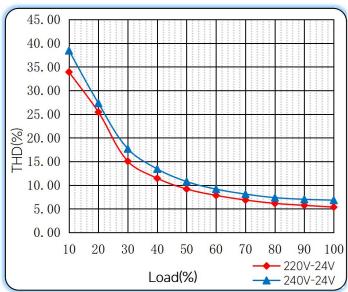
Efficiency vs. Load



Power Factor Characteristics



THD vs. Load

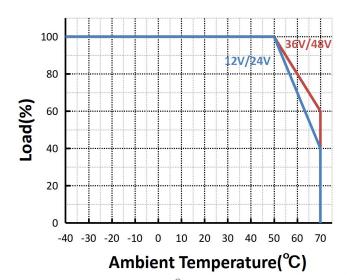


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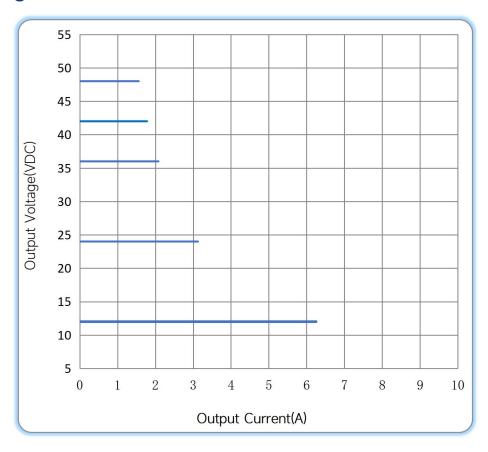
Load vs. Ta



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♦ Operating window



Operating window 100%

Revision Updates

Article information 2025/06/05

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			А	2024/05/15
Operating Temperature	-40°C~+50°C	-40°C~+55°C	В	2025/06/05

Remark: The final interpretation of the contents of the specification belongs to Eaglerise Electric & Electronic (China) Co., Ltd.

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EAGLERISE

Manual Stock code: 002922

REV: B

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