

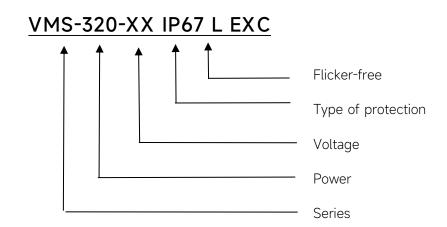
320W Constant Voltage Driver



Description

VMS-320-XX IP67 L EXC series is a 320W, constant voltage IP67 LED driver that operates from 198-264Vac input with 24V/36V/42V/48V output voltage, excellent power factor and THD feature. With it's dimensions from 227.4 x 68 x 39mm. This series of products is specially designed for direct power supply applications such as LED strips. The high efficiency of these drivers and compact plastic 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

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Output	Constant Voltage	24VDC	36VDC	42VDC	48VDC			
	Current Range	0~13.3A	0~8.89A	0~7.62A	0~6.67A			
	Unload voltage Max.(VDC)	25.2VDC	37.8VDC	44.1VDC	50.4VDC			
	Voltage Accuracy	±5%						
•	Output HF current ripple(≥1KHz)	±5%						
	Output LF current ripple(≤120Hz)	±5%						
	SVM	<0.4						
	P _{st}	ৰ						
	Efficiency(Typ.)	92%	93%	93%	93%			
	Rated input voltage	220-240VAC						
	Range of input voltage	198-264VAC						
	Maximum voltage	300VAC@1 h maximum,unit might not operate in this abnormal condition						
	Frequency(Hz)	50/60 Hz						
loout.	Displacement factor	≥0.95						
Input	Power Factor	>0.97@Full load,230V						
	Input Current max	1.75A						
	Start-up time	< 0.5S						
	No Load Power	≤0.5W						
	THD (Typ.)	<7%@Full load,230V						
	Outside and Direction	101-140%						
	Over Load Protection	YES/Auto Resume						
Dustastian		36VDC	50VDC	60VDC	63VDC			
Protection	Over Voltage Protection	YES/Auto Resume						
	Short circuit Protection	YES/Auto Resume						
	Over Temperature Protection	YES/Auto Resume						
oonahilih.	Surge capability (L-N)	4KV						
capability	Surge capability (L/N-Ground)	6KV						
	Operating Temperature	re -40°C~+55°C(Details can be seen "Load vs Ta" curve.)						
	Humidity	20%-90%RH						
	Tc	90℃						
Environment	Storage Temperature	-40°C~+85°C						
	Life time	> 50000h@Tc=75°C						
	Noise	<25dB(A)@20cm						
Curfoos	Dimension	227.4x68x39(LXWXH)mm						
Surface	material	metal case						
Standards	Safety	GB19510. 1, GB19510. 14;IEC61347- 1, IEC61347-2- 13;AS/NZS 61347- 1, AS/NZS 61347-2- 13;AS 61347.2.13;EN62384;						

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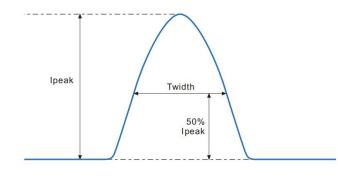


VMS-320-XX IP67 L EXC

	EMC	GB/T17743, GB17625. 1;EN55015, EN61000-3-2, EN61000-3-3,				
		EN61547;EN55015, EN61000-3-2, EN61000-3-3, EN61547,EN				
		62493;EN61000-4-5;EN61000-4-2,3,4,5,6,8,11, EN61547				
	ErP	ErP2.0 EU 2019/2020				
	RoHS	RoHS (2011/65/EU) (EU)2015/863				
	1.All parameters NOT specially m	nentioned are measured at 230Vac input and 25°C of ambient temperature.				
	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 EMI specifications above, but EMI performance of a lighting fixture also depends on the other devices on					
	the fixture.					
	4.The IC setting protection logic is: many times quick switch will caused 1s delay to power on, the interval of start up time more 2s, will					
	be power on normally.					
Note	5. The LED driver complies with 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.					
	6.All Eaglerise power supply are complied with EMI regulations. Since they are belong to component and will be installed inside					
	system enclosure. When they are integrated into a system, the EMI characteristics of the system must be re-verified again.					

♦ Inrush Current

Ipeak	Twidth	B10	B16	B20	C10	C16	C20
47A	838µs	1pcs	3pcs	3pcs	3pcs	5pcs	6pcs



Remarks:

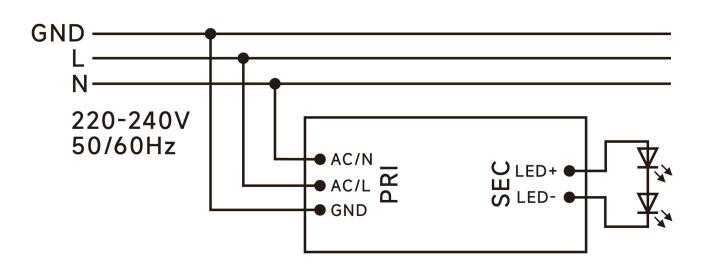
1. The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.

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

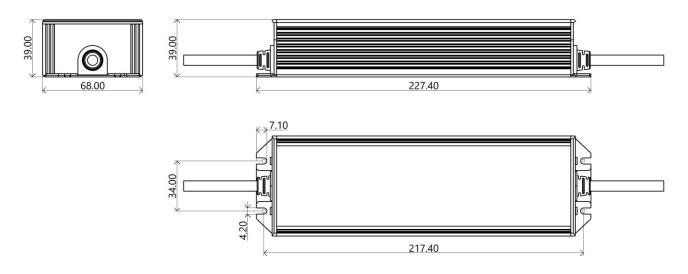
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♦ Wiring diagram



♦ 2D diagram



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Model	TYPE	Total Length	Outside Color	Inside Wires Color	Wire Model/Diameter
VMS-320-XX IP67 L EXC	Input wire	300mm	Black	Brown/Blue/Yellow&G reen	H05RN-F/3x1.0mm2
VMS-320-24 IP67 L EXC	Output wire	300mm	Black	Red/Black	H05RN-F/2x1.5mm2
VMS-320-36 IP67 L EXC	Output wire	300mm	Black	Red/Black	H05RN-F/2x1.5mm2
VMS-320-42 IP67 L EXC	Output wire	300mm	Black	Red/Black	H05RN-F/2x1.0mm2
VMS-320-48 IP67 L EXC	Output wire	300mm	Black	Red/Black	H05RN-F/2x1.0mm2

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

◆ Packaging

Model	Product Dimensions(mm)	weight/piece	Outer carton dimension(mm)	Quantity/carton	Net weight/carton(Kg)	Gross weight/carton(Kg)
VMS-320-XX IP67 L EXC	227.4x68x39	1.15	405X315X170	24	27.6	27.28

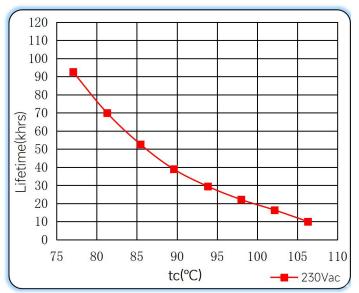
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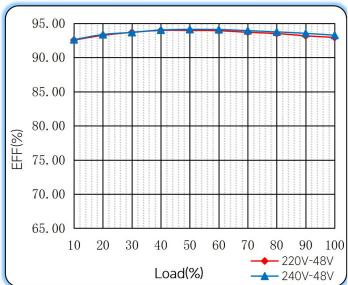


◆ Curve for VMS-320-XX IP67 L EXC

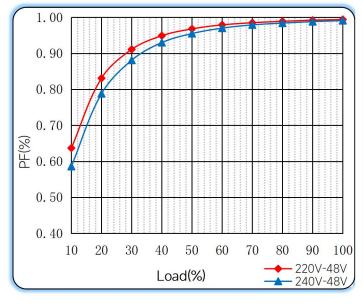
Lifetime vs. Temperature Curve



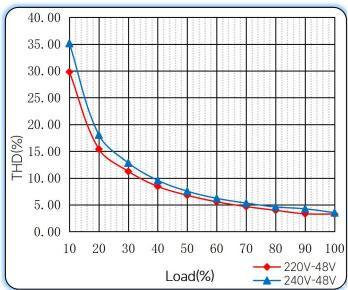
Efficiency vs. Load



Power Factor Characteristics



THD vs. Load

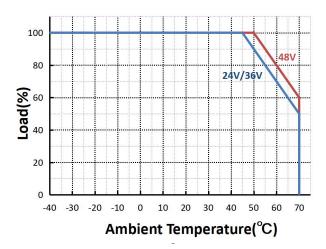


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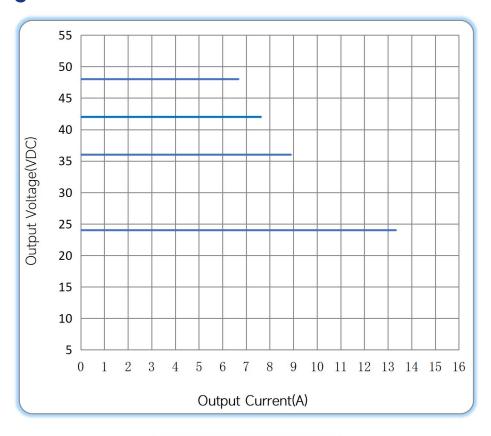
Load vs. Ta



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♦ Operating window



— Operating window 100%

♦ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			А	2024/05/15
Operating Temperature	-40°C~+50°C	-40°C~+45°C	В	2024/12/10
Operating Temperature	-40°C~+45°C	-40°C~+50°C	С	2025/05/27
Operating Temperature	-40°C~+50°C	-40°C~+55°C	D	2025/06/05
Wiring diagram			Е	2025/08/01

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

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Manual

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