

75W Constant Voltage Driver





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

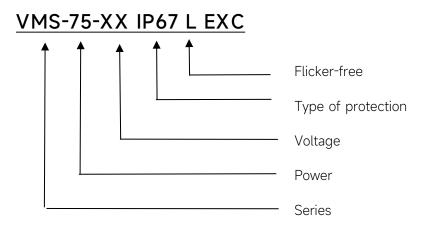
Applications

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

| Output | Constant Voltage | 12VDC | 24VDC | 36VDC | 42VDC | 48VDC | | | |
|-------------|----------------------------------|--|------------------|------------------|---------------|--------------------|--|--|--|
| | 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 HF current ripple(≥1KHz) | ±5% | ±5% | | | | | | |
| | Output LF current ripple(≤120Hz) | ±5% | | | | | | | |
| | SVM | ≤0.4 | | | | | | | |
| | P _{st} | <1 | | | | | | | |
| | Efficiency(Typ.) | 88% | | | | | | | |
| | 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 | | | | | | | |
| | 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 Resume | | | | | | | |
| | Surge capability (L-N) | 4KV | | | | | | | |
| capability | Surge capability (L/N-Ground) | 6KV | | | | | | | |
| | Operating Temperature | -40°C~+55° | °C(Details can I | oe seen "Load v | s Ta" curve.) | | | | |
| | Humidity | 20%-90%R | 20%-90%RH | | | | | | |
| | Tc | 90°C | | | | | | | |
| Environment | Storage Temperature | -40°C~+85°C | | | | | | | |
| | Life time | >50000h@Tc=75°C | | | | | | | |
| | Noise | ≤25dB(A)@20cm | | | | | | | |
| ~ · | Dimension | 143.4X47X31.8(LXWXH)mm | | | | | | | |
| Surface | material | metal case | | | | | | | |
| | Safety | GB19510. 1, GB19510. 14;IEC61347- 1, IEC61347-2- 13;AS/NZS 61347- 1, | | | | S 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, | | | | | | | |
| | | EN61547;EN55015, EN61000-3-2, EN61000-3-3, EN61547,EN | | | | | | | |
| | | 62493;EN6 | 1000-4-5;EN61(| 000-4-2,3,4,5,6, | 8,11, EN61547 | | | | |

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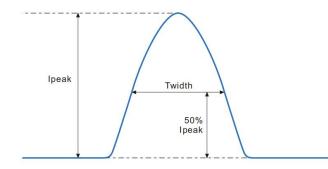


VMS-75-XX IP67 L EXC

| | RoHS | RoHS (2011/65/EU) (EU)2015/863 | | | | | | |
|------|--|---|--|--|--|--|--|--|
| | 1.All parameters NOT specially | 1.All parameters NOT specially mentioned are measured at 230Vac input and 25°C of ambient temperature. | | | | | | |
| | 2.Ripple & Noise are measured 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 El the fixture. | 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 prot | 4.The over-temperature protection of the product is provided by the IC. | | | | | | |
| Note | 5.The start-up time is measudegrees. | ured under cold start-up, frequent switching on and off may extend the start-up time to different | | | | | | |
| | outdoor sheltered locations (e. 7.All Eaglerise power supply | h the IP67 (and lower) protection rating standards, but is only suitable for indoor damp environments or .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 by 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 |
|-------|--------|-------|-------|-------|-------|-------|-------|
| 40.6A | 184µs | 11pcs | 17pcs | 22pcs | 16pcs | 25pcs | 32pcs |



Remarks:

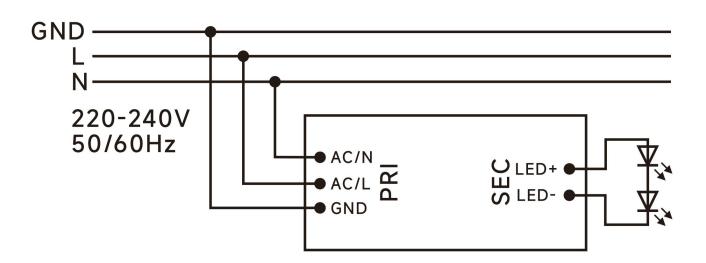
1. The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.

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

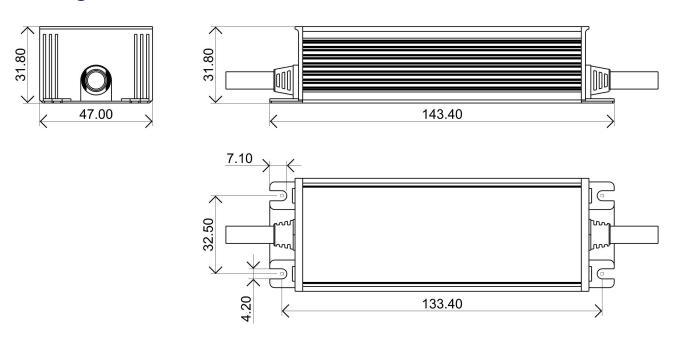
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♦ Wiring diagram



♦ 2D diagram



| TYPE | Total Length | Outside Color | Inside Wires Color | Wire Model/Diameter |
|-------------|--------------|---------------|-------------------------|------------------------------|
| Input wire | 200mm | Black | Brown/Blue/Yellow&Green | H05RN-F/3x1.0mm ² |
| Output wire | 200mm | 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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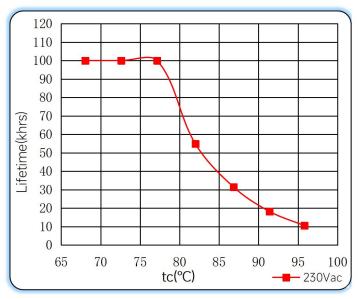


♦ Packaging

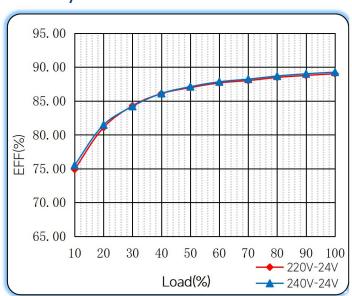
| Model | Product Dimensions(mm) | weight/piece | Outer carton dimension(mm) | Quantity/carton | Net weight/carton(Kg) | Gross weight/carton(Kg) |
|-------------------------|------------------------|--------------|-------------------------------|-----------------|--------------------------|----------------------------|
| VMS-75-XX IP67 L EXC | 143.4X47X31.8 | 0.377 | 295X255X200 | 30 | 11.31 | 12.5 |

◆ Curve for VMS-75-XX IP67 L EXC

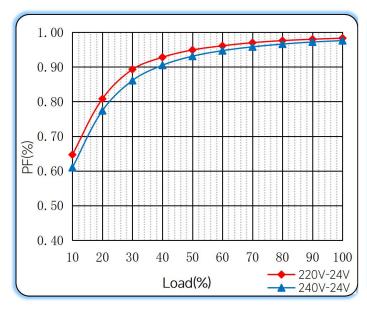
Lifetime vs. Temperature Curve



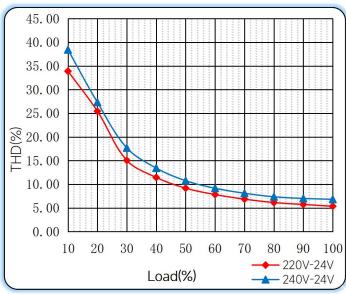
Efficiency vs. Load



Power Factor Characteristics



THD vs. Load

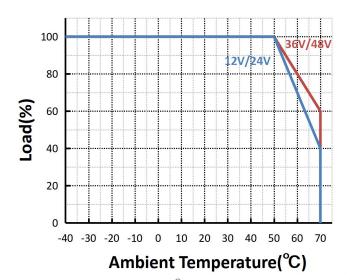


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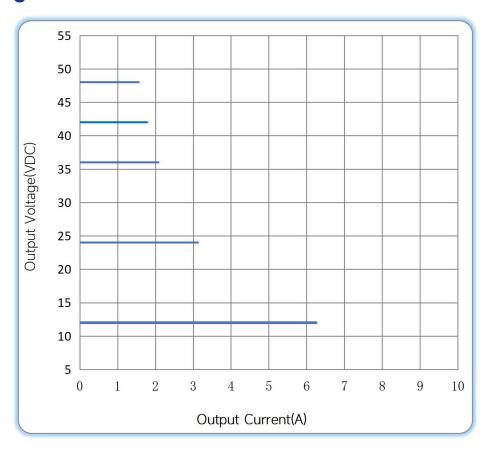
Load vs. Ta



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♦ Operating window



Operating window 100%

♦ Revision Updates

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