



ZORANTECH
卓然照明

100W Triac & 0/1-10v Dimmable C.V. led driver



■ Features

- Constant Voltage (C.V.) output
- Built-in EMI filter, High efficiency up to 88%
- Input voltage:90-130VAC or 180-265VAC
- Protections:Short circuit/Over voltage/Over temperature
- Cooling by free air convection
- Built-in 4 in 1 dimming function(1-10V or PWM or Resistor or Triac)
- Dimming range:0-100%/10-100%
- Noise free, flicker free, 3-5 years warranty
- OEM & ODM, no MOQ, Support customization

■ Applications

- LED outdoor lighting
- LED strip light
- LED kitchen light
- LED wall washer light
- LED underground light
- LED tunel light
- LED garden lights
- LED line light
- LED stage lights
- LED Spot light

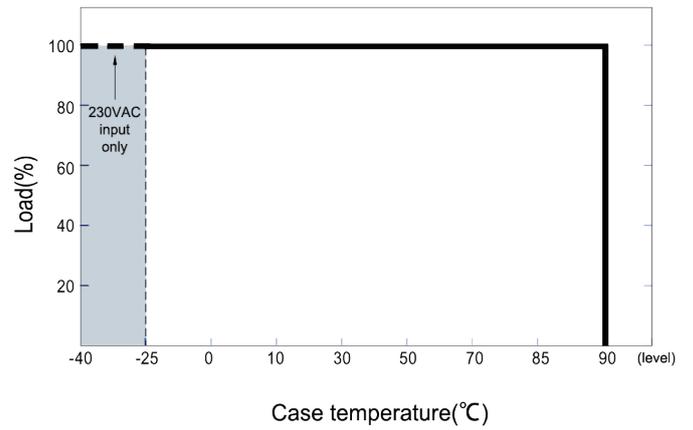
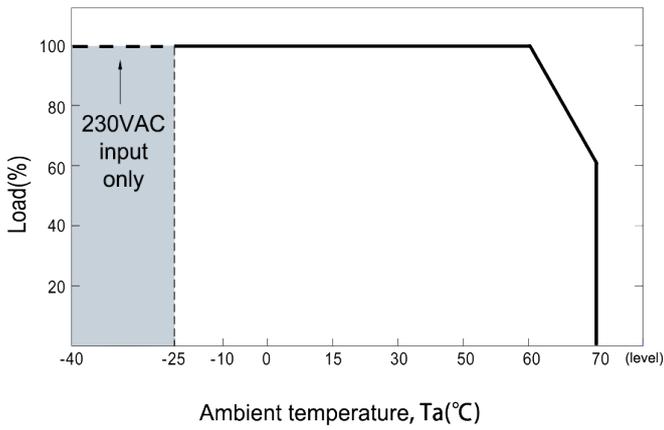
■ Description

The Triac & 0/1-10v constant voltage series produced by Zoran Technology is an AC-to-DC dimming driver.operates from 90-130VAC or 180-265VAC and offers different constant voltage output :12V/24V/36V/48V etc. The efficiency up to 88%, with the fanless design, the entire series is able to operate for -30~ +55℃ case temperature under free air convection. It can be widely matched with all mainstream Trailing Edge Triac dimmer, 0-10V dimmers and control systems in Europe and Australia. flicker free,achieve perfect soft dimming.

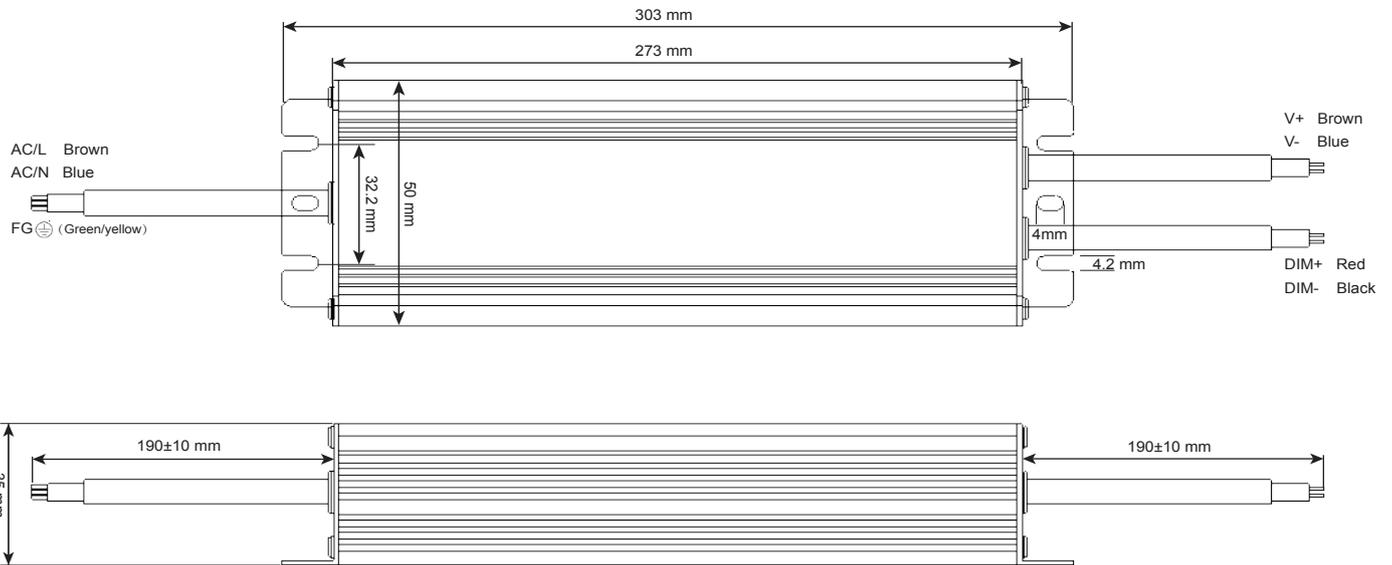
■ Electrical Specification

MODEL		ZR-KVM12NT-120W	ZR-KVM24NT-120W
Output	Output Voltage <small>Note.1</small>	12V	24V
	Output Current <small>Note.2</small>	10000 mA	5000 mA
	Rated Power	120W	120W
	Voltage Tolerance <small>Note.4</small>	±5%	±5%
	Line Regulation	±3%	±3%
	Load Regulation	±3%	±3%
	Setup,Rise Time <small>Note.6</small>	50ms/115VAC 230VAC	
	Hold Up Time <small>(Typ.)</small>	20ms/115VAC 230VAC	
Input	Rate Voltage <small>Note.5</small>	90-130VAC or 180-265VAC	
	Frequency Range	48-62Hz	
	Full load Efficiency	≥87%	≥88%
	AC Inrush current <small>(Typ.)</small>	30A/230V AC (cold start)	
	AC Current <small>(Typ.)</small>	1.24A/110VAC 0.62A/220VAC 0.54A/265VAC	
	input signal	0/1-10v or PWM or Resistor or Triac	
Protection	Short Circuit	Hiccup Mode,Recovers automatically after fault condition is removed	
	Over Voltage	Protection type:Shut down O/P voltage,re-power on to recover	
	Over Temperature	Shut down O/P voltage,re-power on to recover	
Environment	Working Temperature	Tcase= -30~+55 C	
	Max Case Temperature	Tcase=+65 C	
	Working Humidity	20-95%RH non-condensing	
	Storage TEMP. Humidity	-40~+85 C 10-95%RH	
EMC	Withstand Voltage	I/P-O/P:1.5KVAC/5mA/1min I/P-FG:1.5KVAC/5mA/1min O/P-FG:0.5KVAC/5mA/1min	
	Isolation Resistance	I/P-O/P,I/P-FG,O/P-FG:100M ohms/500VDC/25 C /70%RH	
	EMC Emission	Compliance to GB4943	
	EMC Immunity	Compliance to GB9254	
Others	Dimension (L×W×H)	303*50*35 mm	
	Weight	820 g	
	Packing	20pcs/16.4Kg/ctn	
Note	<p>1.All parameters not specially mentioned are measured at 230VAC input, rated load and 25 C of ambient temperature.</p> <p>2.Tolerance: includes set up tolerance, line regulation and load regulation.</p> <p>3.Length of setting time is measured at first cold starting. Turning ON/OFF the power supply may increase of the length of setting time.</p> <p>4.When the maximum temperature point Tc of the shell of this series is lower than 65 C , the working life is more than 30,000 hours.</p> <p>5.Please refer to the product warranty on Zoran Technology website http://www.zorantech.com.</p> <p>6.If you need other special parameters, please contact our customer service for consultation!</p>		

■ Output load VS Temperature

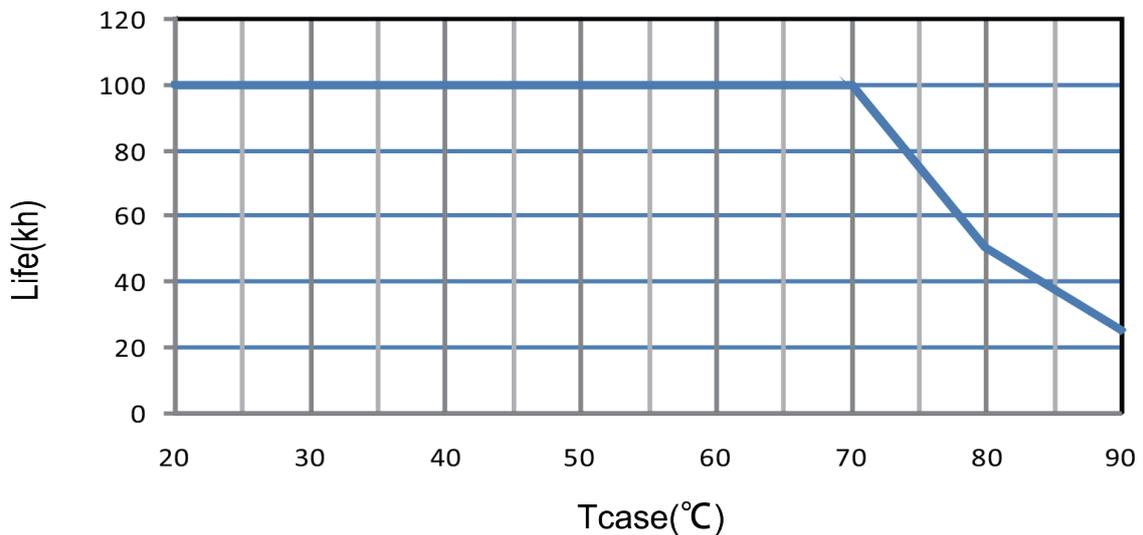


■ Mechanical Specification

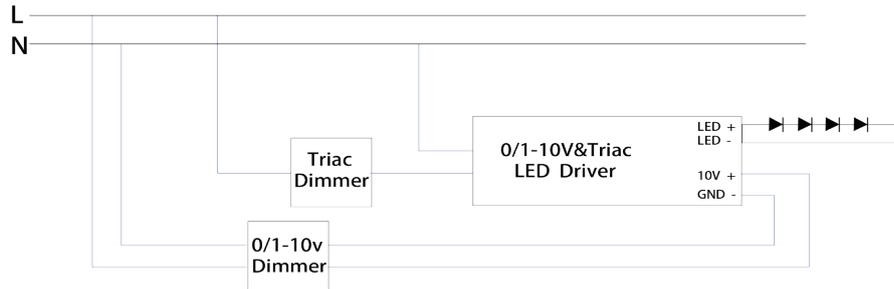


- ※ The yellow-green wire at the input is the ground (FG), the brown wire is the AC phase wire(L), and blue wire is the AC neutral wire (N);
- ※ The brown wire at the output is the positive dimming signal (DIM+) and the blue wire is the dimming signal negative (DIM-), the red wire is the positive output voltage(V+) and black wire is the negative output voltage(V-);
- ※ In addition, the length and thickness of the input and output lines can be customized according to customer requirements. Please contact Zoran Customer Service for details;

■ Life



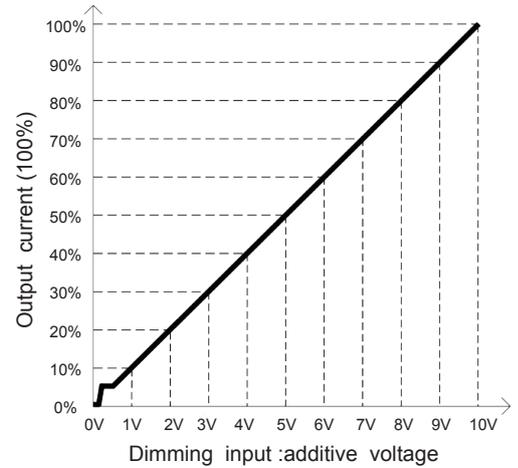
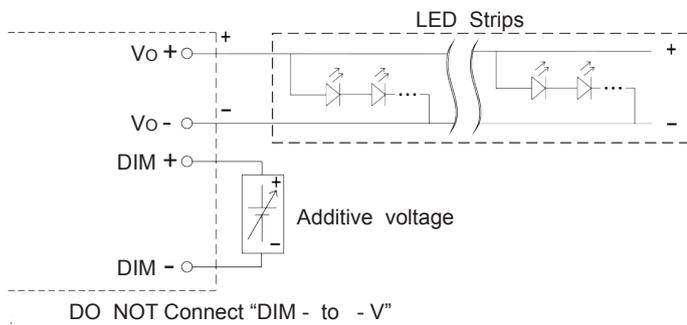
■ Dimming Operation



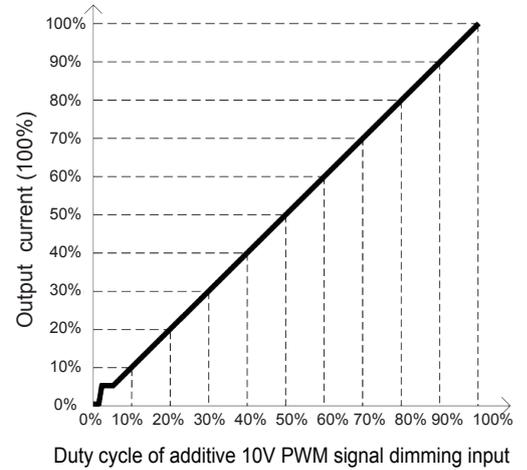
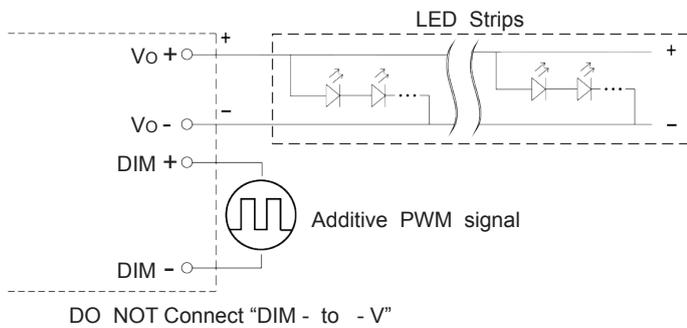
※ 4 in 1 dimming function(for E/A-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0-10VDC, or 1-10VDC, or 10V PWM Signal or resistance.
- Direct connecting to LED is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100μA(typ.)

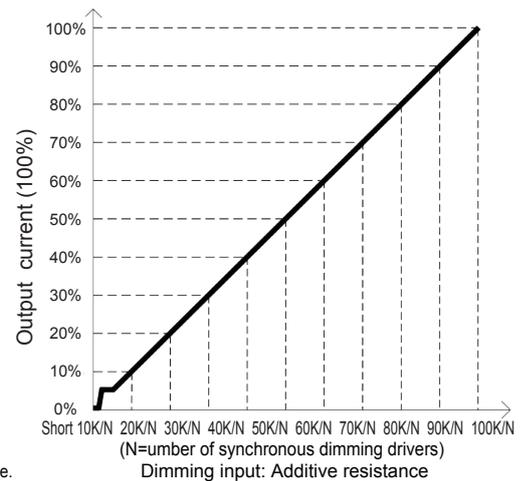
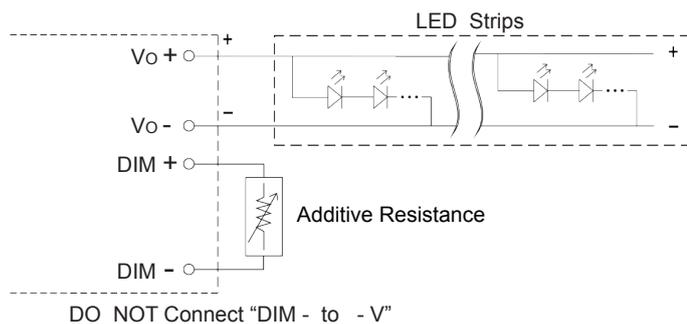
◎ Applying additive 0~10VDC:



◎ Applying additive 10V PWM signal(frequency range 100Hz~3KHz):



◎ Applying additive resistance:



Note:

1. Min. dimming level is about 3% and the output current is not defined when 0% < I_{out} < 3%.
2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.