

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 indoor lighting
- LED panel light
- LED track light
- LED ceiling light
- LED tri-proof light
- LED down light
- LED kitchen light
- LED grille light
- LED strip light

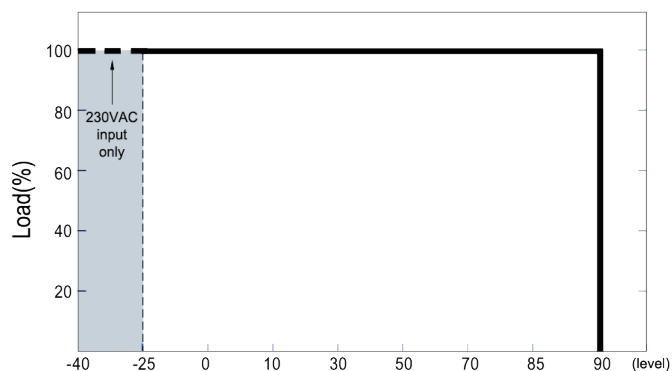
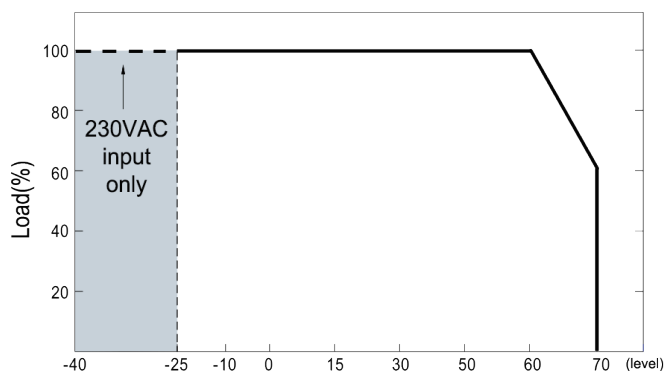
■ Description

The Triac & 0/1-10v constant voltage series produced by Zoran Technology is an AC-to-DC dimming driver. It operates from 90-130VAC or 180-265VAC and offers different constant voltage output: 12V/24V/36V/48V etc. The efficiency is up to 88%, with the fanless design, the entire series is able to operate for -20~+55°C 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.

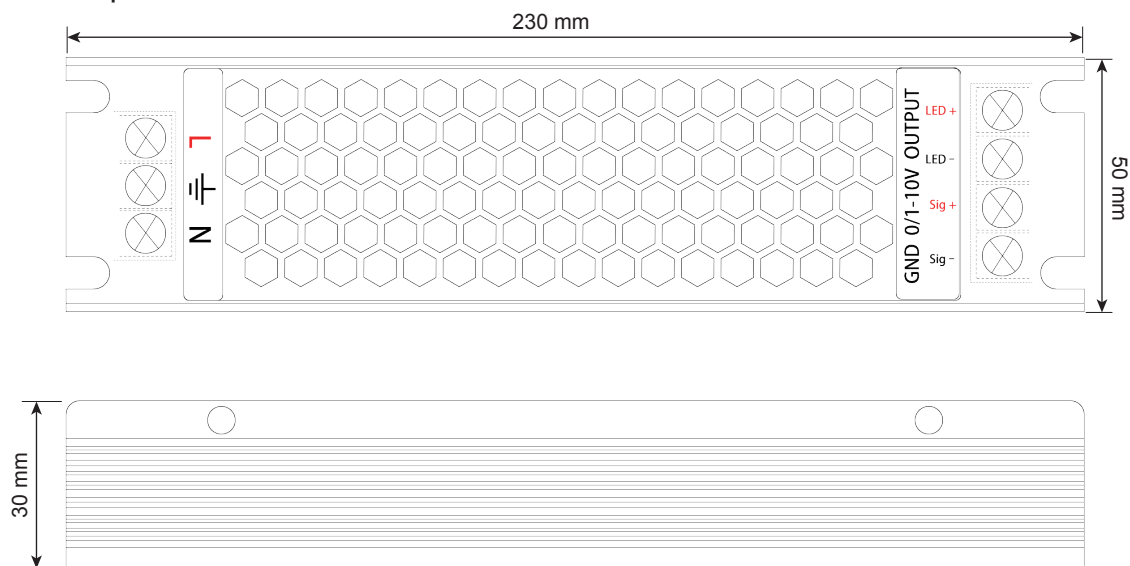
■ Electrical Specification

MODEL		ZR-100-12	ZR-100-24
Output	Output Voltage Note.1	12V	24V
	Ouput Current Note.2	8330 mA	4170 mA
	Rated Power	100W	100W
	Voltage Tolerance Note.4	±5%	±5%
	Line Regulation	±3%	±3%
	Load Regulation	±3%	±3%
	Setup,Rise Time Note.6	50ms/115VAC 230VAC	
	Hold Up Time (Typ.)	20ms/115VAC 230VAC	
Input	Rate Voltage Note.5	90-130VAC or 180-265VAC	
	Frequency Rance	48-62Hz	
	Full load Efficiency	≥87%	≥88%
	AC Inrush current (Typ.)	30A/230V AC (cold start)	
	AC Current (Typ.)	1.04A/110VAC 0.52A/220VAC 0.43A/265VAC	
	input signal	Triac, 0/1-10v, PWM, Resistor(100k)	
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	
Environmen	Working Temperature	Tcase= -20~+55 ℃	
	Max Case Temperature	Tcase=+60 ℃	
	Working Humidity	20-95%RH non-condensing	
	Storage TEMP. Humidity	-40~+85 ℃ 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 ℃/70%RH	
	EMC Emission	Compliance to GB4943	
	EMC Immunity	Compliance to GB9254	
Others	Dimension (L×W×H)	230*50*30 mm	
	Weight	350 g	
	Packing	60pcs/21Kg/ctn	
Note	1.All parameters not specially mentioned are measured at 230VAC input, rated load and 25 ℃ of ambient temperature. 2.Tolerance: includes set up tolerance, line regulation and load regulation. 3.Length of seting time is measured at first cold starting. Turning ON/OFF the power supply may increase of the length of seting time. 4.When the maximum temperature point Tc of the shell of this series is lower than 60 ℃ , the working life is more than 30,000 hours. 5.Please refer to the product warranty on Zoran Technology website http://www.zorantech.com . 6.If you need other special parameters, please contact our customer service for consultation!		

Output load VS Temperature

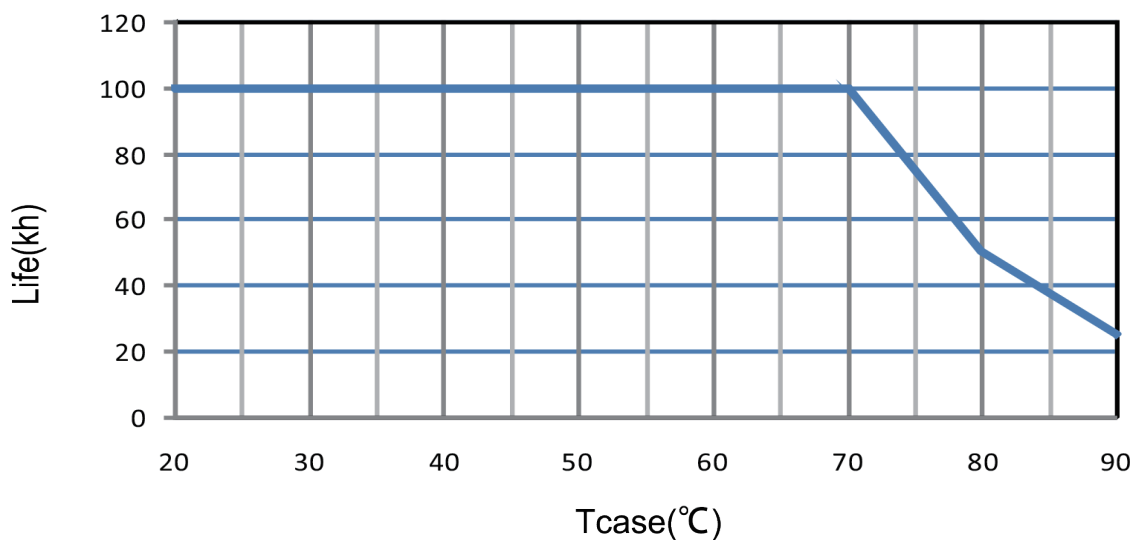


Mechanical Specification

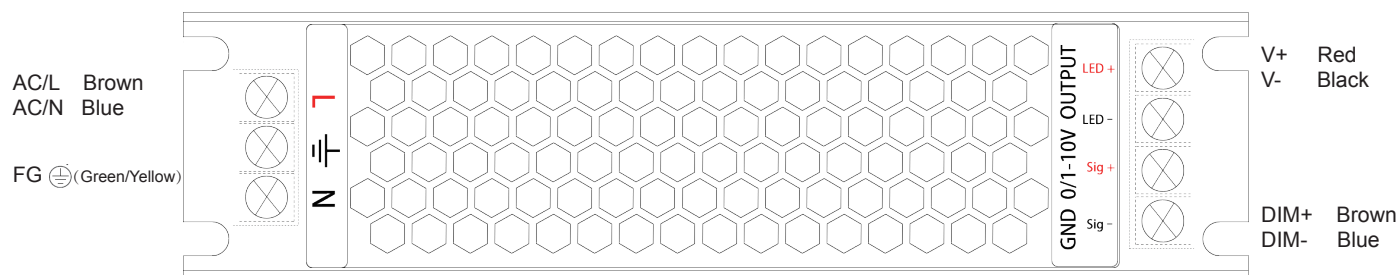


- ※ The input terminal is a 3 in 1 terminal block. Please connect the corresponding neutral wire (N) and fire wire (L) and Ground wire (FG) according to the label;
- ※ The output terminal is 4 in 1 terminal block. Please connect the corresponding dimming signal positive electrode (DIM+), dimming signal negative electrode (DIM-), LED lamp positive (+), LED lamp negative (-) according to the label;
- ※ Support customization, For more information, please contact Zoran Customer Service;

Life



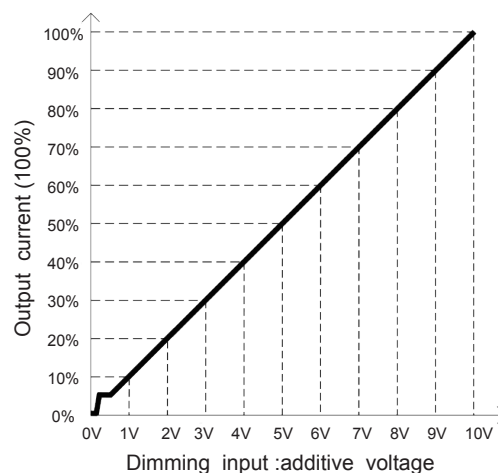
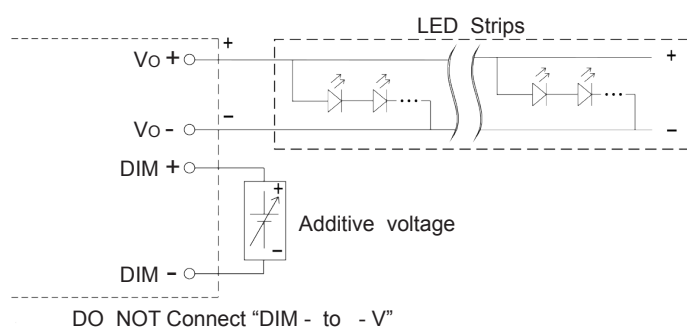
■ Dimming Operation



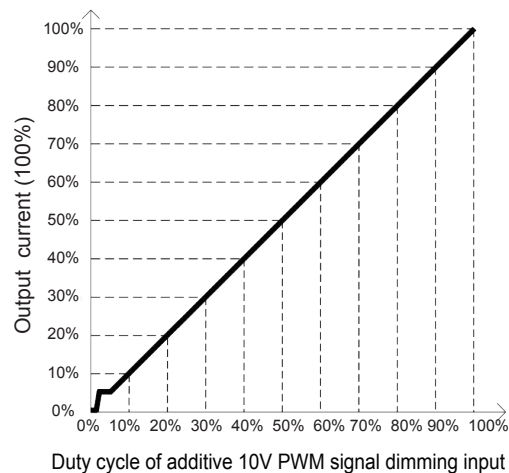
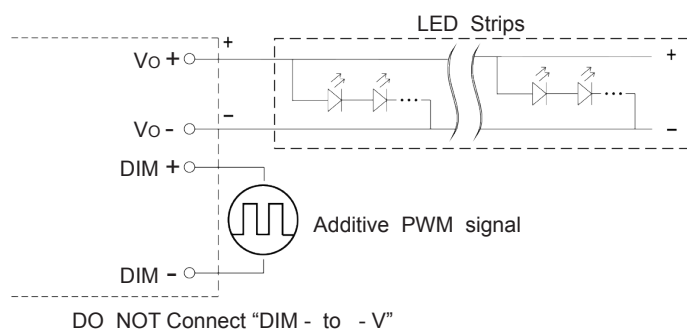
※ 4 in 1 dimming function(for E/A-Type)

- 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.)

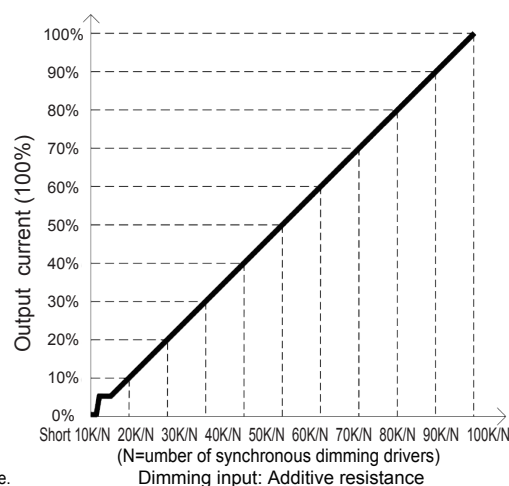
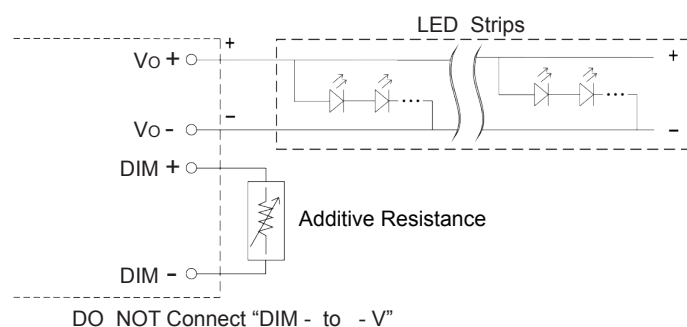
◎ Applying additive 0~10VDC:



◎ 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.