RiZÜ

0/1-10V Constant Voltage LED Driver

Model No.: RZ-VD-150-24F; RZ-VD-150-12F



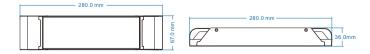


Features

- Dimming interface: 0-10V, 1-10V, 10V PWVM, Resistor, AC Push-Dim
- Universal AC input / Full range
- 1 channel constant voltage output, Max. total output power 150W
- Built-in active PFC function: 0.95 Typ
- Synchronize on multiple number of LED drivers
- Over-heat / Over-load / Short circuit protection, recover automatically
- Suitable for indoor LED lighting application
- 5 Year, 50,000hr warranty

Mechanical Structures and Installations





Technical Parameters

Model		RZ-VD-150-12F	RZ-VD-150-24F
Output	Output Voltage	12VDC	24VDC
	Output Current	Max. 12.5A	Max. 6.25A
	Output Power	Max. 150W	
	Startup time	25/115VAC, 15/230VAC	
	Dimming Range	0~100%	
	Ripple & Noise	<=150mV/230VAC	
	PWM Frequency	2000Hz	
Input	Input Voltage Range	100~240VAC	
	Frequency Range	50/60Hz	
	Efficiency	92%/230VAC	
	Alternating Current	1.5A/115VAC, 0.75A/230VAC	
	Power Factor	>0.95/230VAC	
	THD	<5%/100VAC, <10%/230VAC@ half lood	
	Inrush Current	Cold start 27.5A at 230VAC	
	Anti Surge	L-N:1KV:L,N-FG:2kv	
	Leakage Current	<5mA	
	No Load Power	2W/115VAC, 2W/230VAC	
Protection	Over Load Power	Shut down the output when current load >= 110% \sim 140%, auto recovers.	
	Short Circuit	Shut down automatically if short circuit occurs, auto recovers.	
	Over Temperature	Intelligently adjust or turn off the output current if the PCB temp > 100°C, auto recovers.	
Environment Safety&EMC	Woking Temperature	-30°C~55°C	
	T-case Max	80°C	
	Working Humidity	20%~90%RH, non-condensing	
	Storage Temperature/Humidity	-40°C~80°C, 10%~95%RH	
	Temperature Coefficient	±0.03%/°C (0-50%)	
	Vibration Resistance	10-500Hz, 2G, 6min/cycle, X,Y,Z axes/2min	
	IP Rating	IP20	
	Security Specifications	IEC/EN61347-1, IEC/EN61347-2-13	
	Withstand Voltage	I/P-O/P: 3750VAC	
	Insulation Resistance	I/P-O/P: 100MΩ/500VDC/25℃/70%RH	
	EMC Emission	EN55015, EN61000-3-2 Class C, IEC61000-3-3	
	EMC Immunity	EN61000-4-2.3.4.5.6.8.11, EN61547	
	Certications	CE, EMC	

Applications

- Suitable for LED related fixture or appliance which use LED light bar and LED tape (like LED Decoration or Advertisement devices).
- Office / Commercial / Domestic Lighting, Hotels, Retail and Display.
- Use for retrofit upgrades & new luminaire designs.

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Wiring Diagram

1.0/1-10V Connection



- The 0/1-10V input is operable via commercially available simple rotary wall switchs designed for 0/1-10V dimming equipment or from decicated system central dimming controllers.
- Compliant with 0-10V, 1-10V, 10V PVV/M, RX(4 in 1).
- We recommend the number of LED drivers connected to 0/1-10V dimmer does not exceed 50 pieces, The maximum length of the wires from dimmer to LED driver should be no more than 50 meters.
- If the LED driver be used with the RF remote or Push-Dim interface prior to using the 0/1-10V interface, the 0/1-10 V signal should change over 10% to return 0/1-10 V control.

2. AC Push-Dim connection



The provided AC Push-Dim interface allows for a simple dimming method using commercially available non-latching (momentary) wall switchs.

Short press:

Turn on or off light.

 Long press (1-6s): Press and hold to step-less dimming,

With every other long press, the light level goes to the opposite direction.

• Dimming memory:

Light returns to the previous dimming level when switched off and on again, even at power failure.

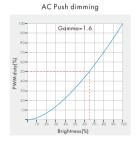
Synchronization:

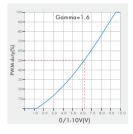
If more than one LED driver are connected to the same push switch, do a long press for more than 10s, then the system is synchronized and all lights in the group dim up to 100%.

This means there is no need for any additional synchrony wire in larger installations.

We recommend the number of LED drivers connected to a push switch does not exceed 25 pieces, The maximum length of the wires from push to LED driver should be no more than 20 meters.

Dimming Curve





0/1-10V dimming