DALI Constant Voltage LED Driver

Model No.: RZ-DA-150-24, RZ-DA-150-12P















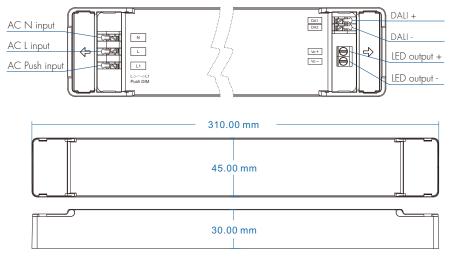




Features

- Dimming interface: DALI, AC Push-Dim
- Universal AC input / 100-277VAC
- 1 channel constant voltage output, Max. total output power 150W
- Built-in active PFC function: 0.98 Typ
- Synchronize on multiple number of LED drivers
- Over-heat / Over-voltage / Over-load / Short circuit protection
- Suitable for indoor LED lighting application
- 5 Year, 50,000hr warranty

Mechanical Structures and Installations



Technical Parameters

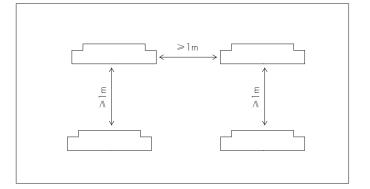
Model		RZ-DA-150-12P	RZ-DA-150-24P	
	Output Voltage	12VDC	24VDC	
	Output Current	Max. 12.5A	Max. 6.25A	
	Output Power	Max. 150W		
	Startup time	2S/100VAC, 1S/230VAC		
Output	Dimming Range	0~100%		
	Ripple & Noise	<=150mV /230 VAC		
	PWM Frequency	2000Hz		
Input	Input Voltage Range	100~277VAC		
	Frequency Range	50/60Hz		
	Efficiency	92%/230VAC		
	Alternating Current	2A/100VAC, 0.75A/230VAC, 0.7A/277VAC		
	Power Factor	>0.98/230VAC		
	THD	<5%/100VAC, <10%/230VAC@ half lood/277VAC@75%load		
	Inrush Current	Cold start 71A at 230VAC		
	Anti Surge	L-N:1KV		
	Leakage Current	<5mA		
	No Load Power	2W/100VAC, 2W/230VAC, 2.5W/277VAC		
Protection	Over Load	Shut down the output Voltage, when the load>=110% \sim 140%, auto recovers.		
	Over Voltage	Shut down the output Voltage, when the Voltage>=110% \sim 140%, re-power on to recover		
	Over Temperature	Shut down the output Voltage, re-power on to recover		
	Short Circuit	Shut down the output Voltage, re-power on to recover		
	Woking Temperature	-30℃~50℃		
	T-case Max	90℃		
<u></u>	Working Humidity	20%~90%RH, non-condensing		
Environment	Storage Temperature/Humidity	-40℃~80℃, 10%~95%RH		
	Temperature Coefficient	±0.03%/°C (0.50%)		
	Vibration Resistance	10-500Hz, 2G, 6min/cycle, X,Y,Z axes/2min IP20		
	IP Rating		CR10510 14	
Safety&EMC	Security Specifications Withstand Voltage	IEC/EN61347-1, IEC/EN61347-2-13, GB19510.14 I/P-O/P: 3750VAC		
	Insulation Resistance	I/PO/P: 100MΩ/500VDC/25℃/70%RH		
	EMC Emission	EN55015, EN61000-3-2 Class C, IEC61000-3-3		
	EMC Immunity	EN610004-2.3.4.5.6.8.11, EN61547		
	Certications	CE		
	Net weight	420g		
	Gross weight	450g		
	C1033 WEIGIII	+20g		

Applications

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

Installation precautions





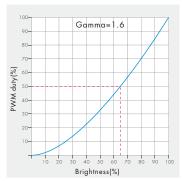
Please do not stack the products.

The distance between two products should be ≥1 m

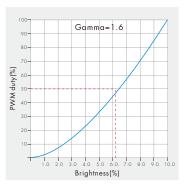
so as not to affect heat dissipation and lifespan of the products.

Dimming Curve





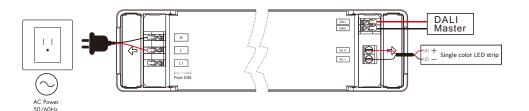
DALI dimming



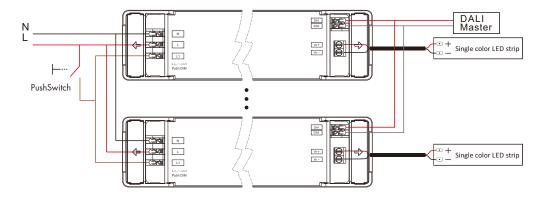
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Wiring Diagram

1. DALI Connection



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:

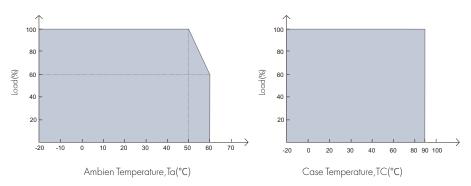
If more than one LED driver are connected to the same push switch, do a long press for more than 10s, then the system is synchronized and all lights in the group dim up to 100%.

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

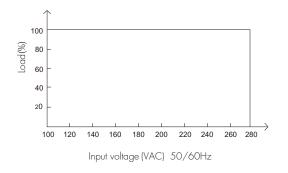
We recommend the number of LED drivers connected to a push switch does not exceed 25 pieces,

The maximum length of the wires from push to LED driver should be no more than 20 meters.

Output Load VS Temperature



Static characteristic





Failure analysis and troubleshooting

fault	cause	solution
The light can not be turned on	1. no power 2. Wrong wiring	Check the power supply Connection test
brightness of the light is inconsistent	Output cable is too long Wire diameter is too small	Reduce wire length or loop power supply Replace Replace to thicker wires
Hiccup flashing light	Overload	Check the power of the light
Multiple LED drivers are out of sync	Inconsistent switch gradients	All initialization, unified setting, switch gradient

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