

DALI Constant Voltage LED Driver

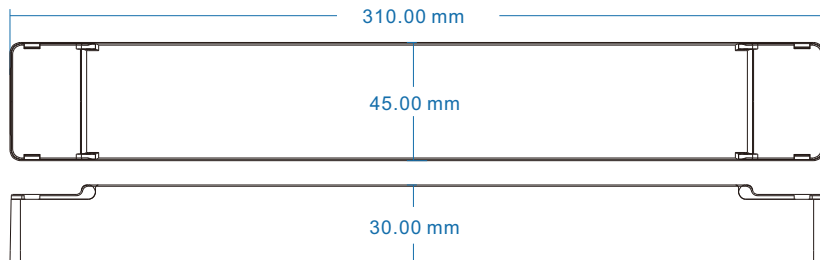
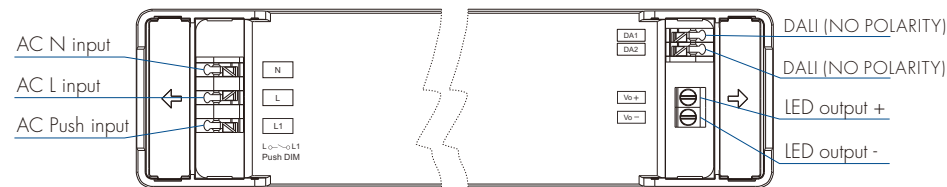
Model No.: LP-150DA-12, LP-150DA-24



Features

- Dimming interface: DALI, AC Push-Dim
- Universal AC input / 100-277VAC
- 1 channel constant voltage output, Max. total output power 1.50W
- Built-in active PFC function: 0.98 Typ
- THD<10%
- 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



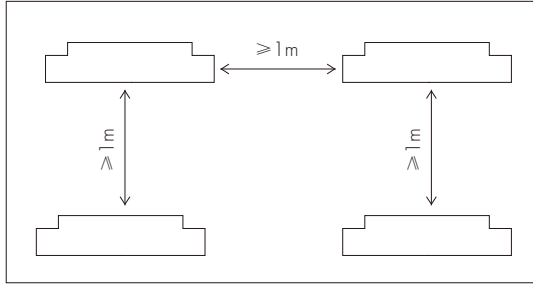
Technical Parameters

Model		LP-150DA-12	LP-150DA-24
Output	Output Voltage	12VDC	24VDC
	Output Current	Max. 12.5A	Max. 6.25A
	Output Power	Max. 1.50W	
	Startup time	2S/100VAC, 1S/230VAC	
	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 load/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%~140%, auto recovers.	
	Over Voltage	Shut down the output Voltage, when the Voltage>=110%~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	
Environment	Working Temperature	-20°C~50°C	
	T-case Max	90°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	
Safety&EMC	Security Specifications	IEC/EN61347-1, IEC/EN61347-2-13, GB19510.14	
	Withstand Voltage	I/PO/P: 3750VAC	
	Insulation Resistance	I/PO/P: 100MΩ/500VDC/25°C/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	
	Certifications	CE	
	Net weight	420g	
Gross weight	450g		

Applications

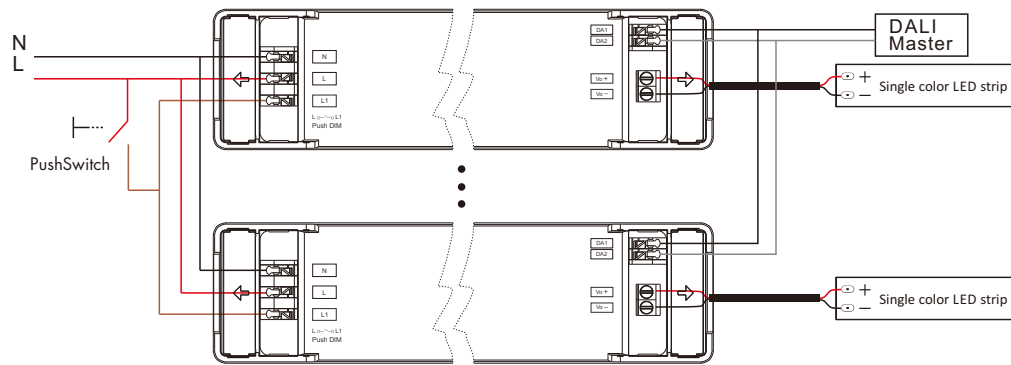
- Suitable for LED related fixture or appliance which use LED light bar and LED tape (like LED Decoration or Advertisement devices).
- Office / Commercial / Domestic Lighting, Hotels, Retail and Display
- Use for retrofit upgrades & new luminaire designs.

Installation precautions



Please do not stack the products.
 The distance between two products should be $\geq 1m$
 so as not to affect heat dissipation and lifespan of the products.

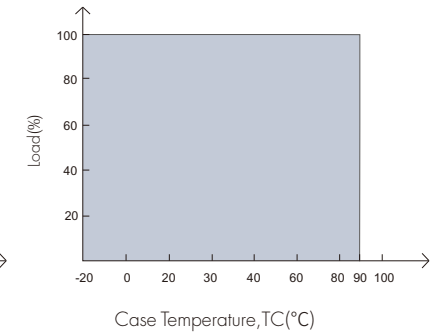
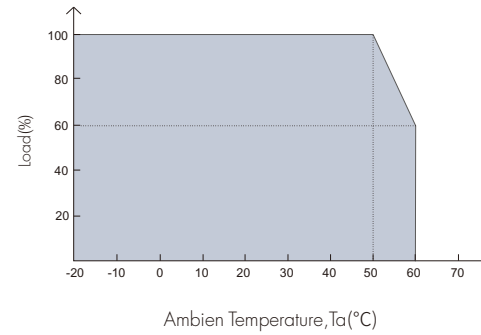
Wiring Diagram



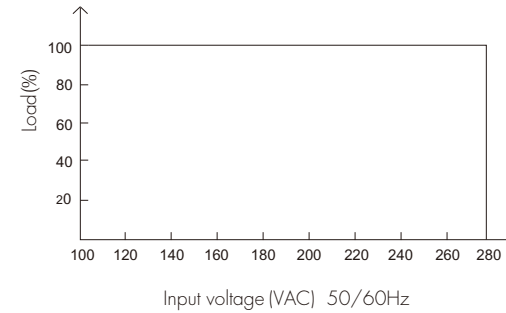
The provided AC Push-Dim interface allows for a simple dimming method using commercially available non-latching (momentary) wall switches.

- **Short press:**
Turn on or off light.
- **Long press (1-6s):**
Press and hold to stepless dimming,
With every other long press, the light level goes to the opposite direction.
- **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.

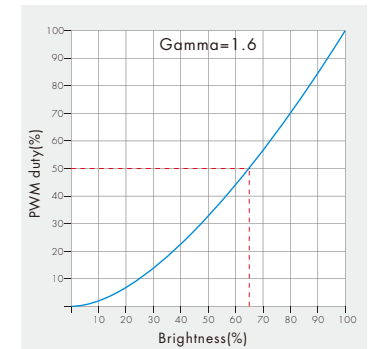
Output Load VS Temperature



Static characteristic



Dimming Curve



Failure analysis and troubleshooting

fault	cause	solution
The light can not be turned on	1. no power 2. Wrong wiring	1. Check the power supply 2. Connection test
brightness of the light is inconsistent	1. Output cable is too long 2. Wire diameter is too small	1. Reduce wire length or loop power supply 2. 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