

100W DALI DT6 Dimmable LED Driver



Important: Read All Instructions Prior to Installation

Function introduction



Product Data

Output	LED Channel	1 Channel
	DC Voltage	24V DC
	Max. Current	Max. 4.17A
	Voltage Tolerance	±3%
	Rated Power	Max. 100W
Input	Voltage Range	220-240V AC
	Frequency Range	50/60Hz
	Power Factor (Typ.)	> 0.97 @ 230VAC
	Total Harmonic Distortion	THD ≤ 9% (@ full load / 230VAC)
	Efficiency (Typ.)	93% @ 230VAC full load
	AC Current (Typ.)	0.5A @ 230VAC
	Inrush Current (Typ.)	COLD START Max. 50.2A @ 230VAC
	Leakage Current	< 0.5mA /230VAC
	Standby Power Consumption	< 0.5W
Control	Anti Surge	L-N:2KV
	Dimming Interface	DALI DT6 (DALI consumption<2mA) / Push
	Dimming Range	0.1%-100%
	Dimming Method	Pulse Width Modulation
	Dimming Curve	Linear/Logarithmic optional
Protection	Over Voltage	Yes, recovers automatically after fault condition is removed
	Over Load	Yes, recovers automatically after fault condition is removed
	Short Circuit	Yes, recovers automatically after fault condition is removed
	Over temperature	Yes, recovers automatically after temperature drop

Environment	Working Temp.	-25°C ~ +45°C
	Max. Case Temp.	85°C (Ta=45°C)
	Working Humidity	10% ~ 95% RH non-condensing
	Storage Temp. & Humidity	-40°C ~ +80°C, 10% ~ 95% RH
Safety & EMC	Safety Standards	IEC/EN61347-1, IEC/EN61347-2-13
	Withstand Voltage	I/P-O/P: 3.75KVAC
	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH
	EMC Emission	EN55015, EN61000-3-2 Class C, EN61000-3-3
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN614547
Others	MTBF	191500H, MIL-HDBK-217F @ 230VAC full load and 25°C ambient temperature
	Dimension	306.6*43*30mm (L*W*H)
	Warranty	5 Years

- Dimmable LED driver, max. output power 100W total
- In compliance with IEC 62386-101:2014, IEC 62386-102:2014, IEC 62386-207 Ed2
- Built-in DALI-2 interface, DALI DT6 device
- 1 channel DC 24V constant voltage output
- High power factor and efficiency
- Built-in DALI interface, DALI DT6 device, each device is controlled via a single DALI address
- PWM dimming,smooth and deep dimming to 0.1%
- Compatible with universal DALI masters that support DT6 commands
- LED Driver has Class A sound ratings per Energy-star regulated
- Error report function
- IP20 rating, suitable for indoor LED lighting applications
- 5 years warranty

Safety & Warnings

- DO NOT install with power applied to the device.
- DO NOT expose the device to moisture.

Operation

1. DALI Address

1 DALI address for 1 channel output are assigned by DALI Master controller automatically, please refer to user manuals of compatible DALI Masters for specific operations.

2. PUSH Dimmer Mode

While connected with a AC PUSH, the driver will be in Push Dimmer Mode, operations under Push Dimmer Mode are as follows:

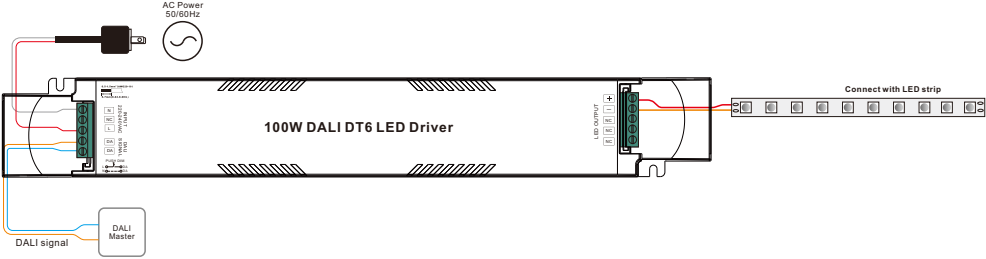
2.1. Click the button to switch ON/OFF

2.2. Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 0.1% to 100%.

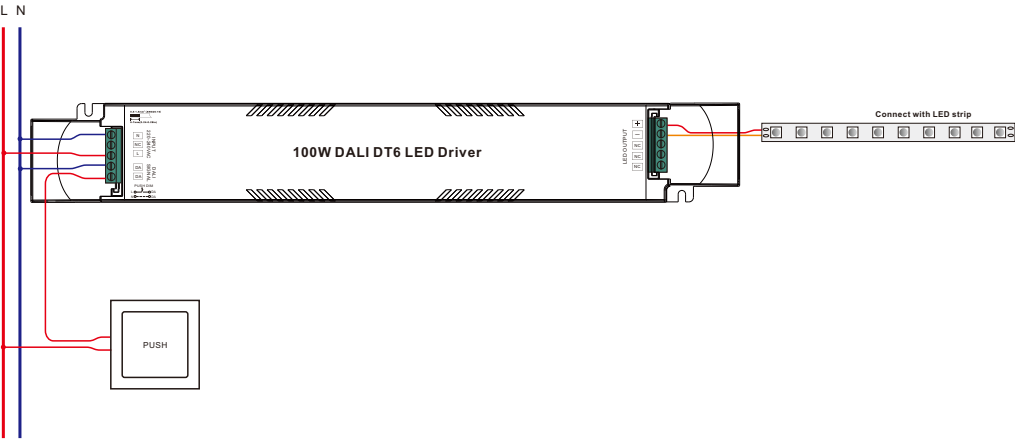
2.3. Memory function after power off or power failure enables the device to memorize the status before power off while power on again.

Wiring diagram

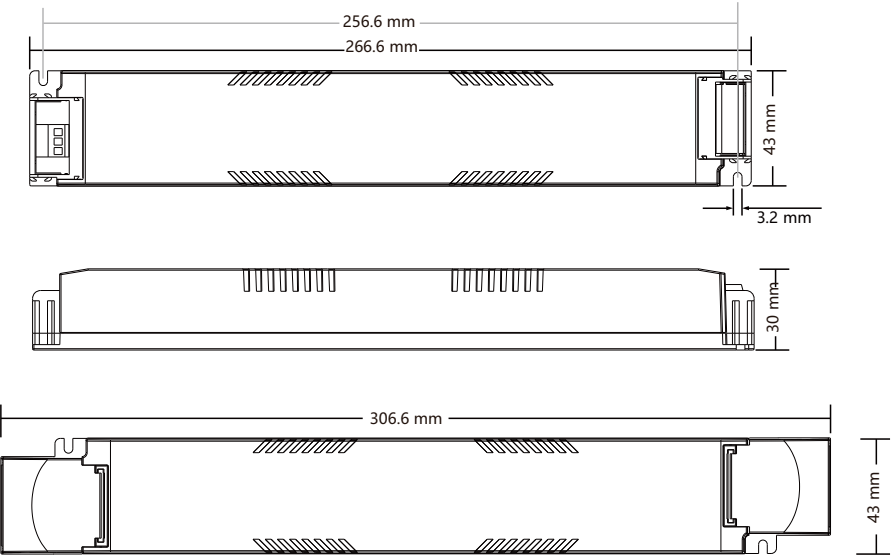
1. With DALI Bus



2. With Push Dim

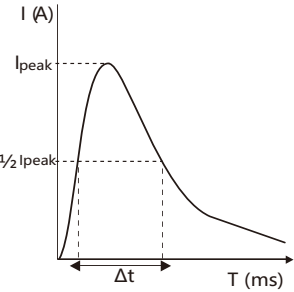


Product Dimension



MCB Load Quantity

Module Number	Ipeak	Twidth	Max.quantity of LED Driver per MCB															
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25	
SRP-2305-24-100LCV	50.2A	276μs	5	6	7	9	11	8	10	12	15	19	15	20	24	30	38	
SRP-2309-24-100LCVT	50.2A	276μs	5	6	7	9	11	8	10	12	15	19	15	20	24	30	38	
SRP-2309-24-100LCVF	50.2A	276μs	5	6	7	9	11	8	10	12	15	19	15	20	24	30	38	



- Note:
- Those MCB parameters are based on ABB S200 series circuit breakers.
 - For different brands and models of miniature circuit breakers, the quantity of drivers will have difference.
 - Please do not exceed the above-mentioned quantity during on-site installation, and the specific load quantity shall be subject to on-site installation.
 - When the installation environment temperature of MCBs exceeds 30°C or when multiple MCBs are installed side by side, the number of mounted drives will be reduced, which requires recalculation.
 - Type C MCB's are strongly recommended to use with LED lighting