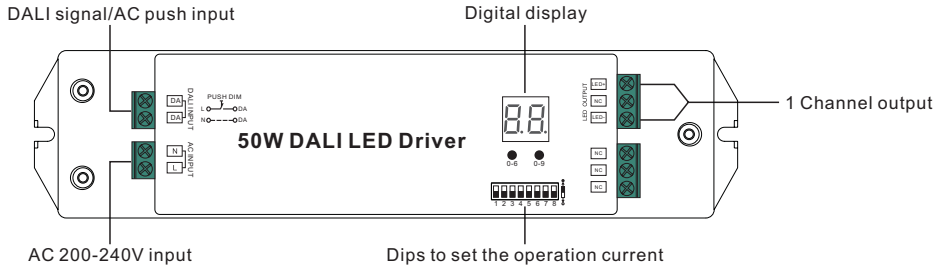
50W DALI LED Driver

09.2305CP.04082

Important: *Read All Instructions Prior to Installation*

Function introduction



Product Data

Output	LED Channel	1							
	Selectable Current	250mA	300mA	350mA	400mA	450mA	500mA	600mA	700mA
	DC Voltage Range	8-48V	8-48V	8-48V	8-48V	8-48V	8-48V	8-48V	8-48V
	Selectable Current	800mA	900mA	1000mA	1100mA	1200mA	1300mA	1400mA	1500mA
	DC Voltage Range	8-48V	8-48V	8-48V	8-46V	8-41V	8-38V	8-35V	8-33V
	Current Tolerance	±5%							
	Rated Power	Max. 50W							
Input	Voltage Range	200-240V AC							
	Frequency Range	50/60Hz							
	Power Factor (Typ.)	> 0.9							
	Total Harmonic Distortion	THD ≤ 15% (@ full load / 230VAC)							
	Efficiency (Typ.)	87% @ 230VAC full load							
	AC Current (Typ.)	0.27A @ 230VAC							
	Inrush Current (Typ.)	COLD START Max. 2A at 230VAC							
	Leakage Current	‹ 0.5mA /230VAC							
Control	Dimming Interface	DALI/PUSH							
	Dimming Range	0%-100%							
	Dimming Method	Pulse Width Modulation							
	Dimming Curve	Logarithmic							

Protection	Short Circuit	Yes, recovers automatically after fault condition is removed
	Over Voltage	Yes, recovers automatically after fault condition is removed
	Over Temperature	Yes, recovers automatically after fault condition is removed
Environment	Working Temp.	-20℃ ~ +45℃
	Max. Case Temp.	75℃
	Working Humidity	10% ~ 95% RH non-condensing
	Storage Temp. & Humidity	-40℃ ~ +80℃, 10% ~ 95% RH
Safety & EMC	Safety Standards	ENEC EN61347-1, EN61347-2-13 approved
	Withstand Voltage	I/P-O/P: 3.75KVAC
	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25℃ / 70% RH
	EMC Emission	EN55015, EN61000-3-2, EN61000-3-3
	EMC Immunity	EN61547, EN61000-4-2,3,4,5,6,8,11
Others	MTBF	193.6K hrs min. @ 230VAC full load and 25℃ ambient temperature
	Dimension	210*50*32mm (L*W*H)

Dips to set the operation current

	1	2	3	4	5	6	7	8
250mA	○	●	○	○	●	●	●	●
300mA	○	●	○	○	●	●	●	○
350mA	○	●	○	○	●	●	○	●
400mA	○	●	○	○	●	●	○	○
450mA	○	●	○	○	●	○	●	●
500mA	○	●	○	○	●	○	●	○
600mA	○	●	○	○	●	○	○	●
700mA	○	●	○	○	●	○	○	○

	1	2	3	4	5	6	7	8
800mA	○	●	○	○	○	●	●	●
900mA	○	●	○	○	○	●	●	○
1000mA	○	●	○	○	○	●	○	●
1100mA	○	●	○	○	○	●	○	○
1200mA	○	●	○	○	○	○	●	●
1300mA	○	●	○	○	○	○	●	○
1400mA	○	●	○	○	○	○	○	●
1500mA	○	●	○	○	○	○	○	○

- Dimmable LED driver
- Max. output power 50W
- 1 channel 250-1500mA constant current output
- Dips to set the operation current
- Class Ⅱ power supply, full isolated plastic case
- High power factor and efficiency
- To switch and dim single color LED lighting
- Built-in DALI interface, DALI DT6 device
- Compatible with universal DALI masters that support DT6 commands
- Error report function
- IP20 rating
- Suitable for indoor LED lighting applications
- 5 years warranty

Safety & Warnings

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

Operation

1. Output Current

Select the correct output current before wiring to LED light by DIP Switches. Please make sure the power to the driver is disconnected before selection of the output current.

2. Set DALI Address Manually Via Buttons

1 DALI addresses for 1 channel output can be set manually via buttons:
2.1. Press and hold down any of the two buttons until numeric digital display flashes, then release the button.
2.2. Click any of the two buttons once to select a digit, click again to change the digit until the desired DALI address appears. Click first button to set “tens” position and second button to set “units” position. The address can be set from 00~63.
2.3. Then press and hold down any of the 2 buttons until the numeric digital display stops flashing to confirm the setting.

Note: DALI address can be manually assigned from 00-63-FF, by factory defaults, no DALI address is assigned for the driver, and the display shows FF . Setting DALI address as FF will reset the dimmer to factory defaults.
FF Mode: to set the driver to FF mode, please set the DALI address above 63 or below 00, which will enable the display to show FF , then press and hold down any of the two buttons until display stops flashing to confirm the setting.

3. DALI Address Assigned by DALI Masters

DALI address can also be assigned by DALI Master controller automatically, please refer to user manuals of compatible DALI Masters for specific operations.

Note: The digital display will show AU When the DALI master is assigning addresses.

4. PUSH Dimmer Mode

While connected with a AC PUSH, the digital display will show “PD” which means Push Dimmer Mode, operations under Push Dimmer Mode are as follows:

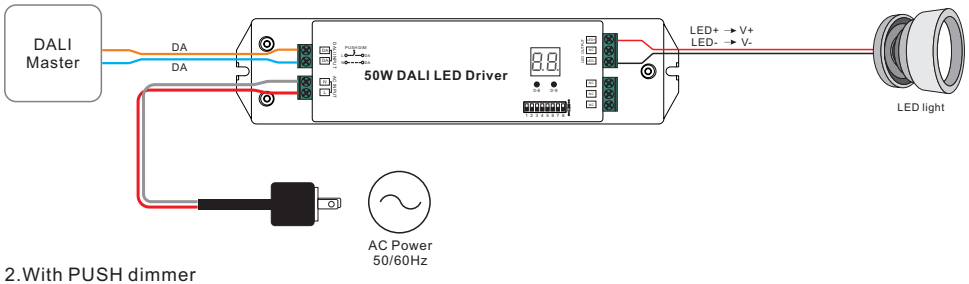
4.1. Click the button to switch ON/OFF

4.2. 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 1% to 100%.

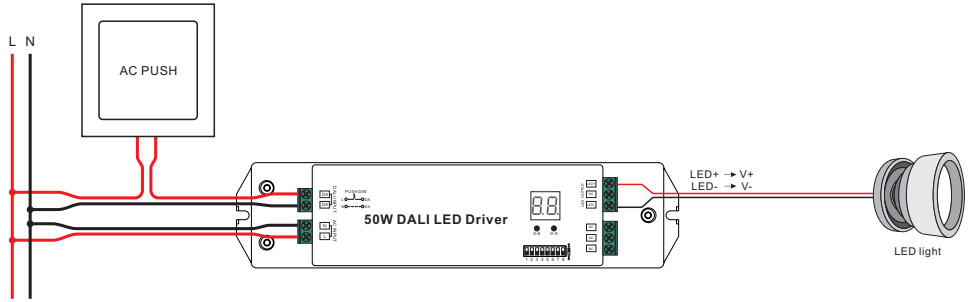
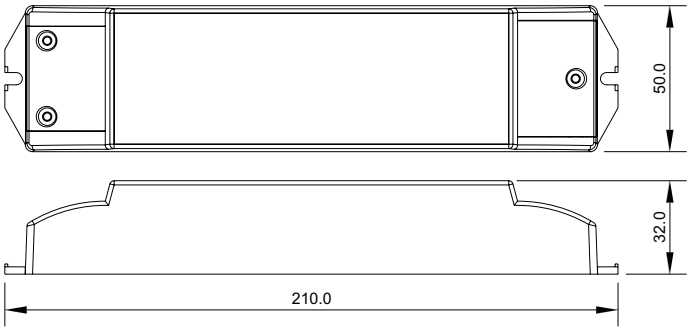
4.3. Memory function after power off or power failure enables the device to memorize the status before power off while power on again.

Wiring Diagram

1.With DALI bus



2.With PUSH dimmer



Product Dimension