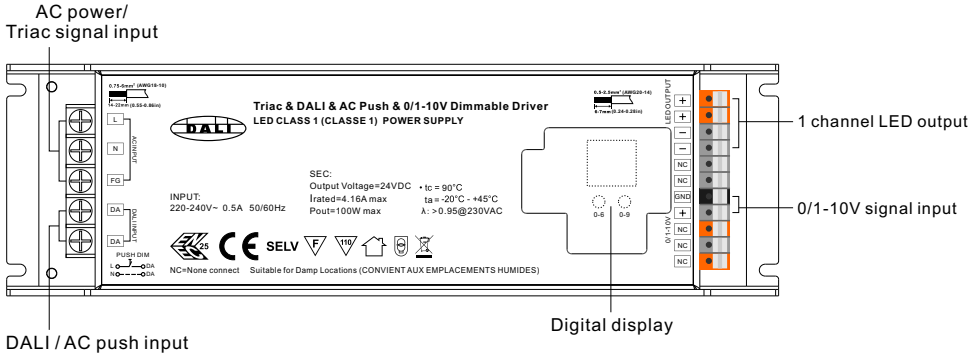
100W DALI/Push+Triac+0/1-10V LED Driver

09.DA1002.04764

Important: *Read All Instructions Prior to Installation*

Function introduction



Product Data

Output	LED Channel	1 (with 2 groups of terminal connected in parallel)
	DC Voltage	24V DC
	Max. Current	Max. 4.16A/group of terminal, group 1+group2=4.16A
	Voltage Tolerance	±1%
	Rated Power	max. 100W
Input	Voltage Range	220-240V AC
	Frequency Range	50/60Hz
	Power Factor (Typ.)	> 0.95 @ 230VAC
	Total Harmonic Distortion	THD ≤ 15% (@ full load / 230VAC)
	Efficiency (Typ.)	91% @ 230VAC full load
	AC Current (Typ.)	0.5A @ 230VAC
	Inrush Current (Typ.)	COLD START max. 50A at 230VAC
	Leakage Current	< 0.5mA /230VAC
Control	Dimming Interface	DALI/Push+Triac+0/1-10V
	Dimming Range	0.1%-100%
	Dimming Method	Pulse Width Modulation
Protection	Short Circuit	Yes, recovers automatically after fault condition is removed
	Over Current	Yes, recovers automatically after fault condition is removed
	Over Temperature	Yes, recovers automatically after fault condition is removed
Environment	Working Temp.	-25℃ ~ +45℃
	Max. Case Temp.	90℃
	Working Humidity	10% ~ 95% RH non-condensing
	Storage Temp. & Humidity	-40℃ ~ +80℃, 10% ~ 95% RH
Safety & EMC	Safety Standards	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, surge immunity Line-Line 1KV
Others	MTBF	193.6K hrs min. @ 230VAC full load and 25℃ ambient temperature

- Dimmable LED driver with rectangle metal case
- With DALI/Push+Triac+0/1-10V dimming interfaces
- 1 channel 24VDC constant voltage output
- Class 1 power supply, full isolated metal case
- Built-in two-stage active PFC function
- PF > 0.95, Efficiency > 91%
- Compatible with universal Triac dimmers
- Compatible with universal 0/1-10V dimmers
- PWM digital dimming output
- Complies with DALI standards IEC62386-101, 102, 207
- Compliant with Safety Extra Low Voltage standard
- Short circuit, over load, over temperature protection
- 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. Dimming Interface Selection

1.1. The LED driver supports 4 kinds of dimming input: DALI, Push, Triac, 0/1-10V.
1.2. Please select any of the 4 dimming interfaces to wire each time.
1.3. To connect a new dimming interface, previously connected dimming interface must be disconnected, once a new dimming interface is connected, please re-power on the driver to switch to current dimming interface.
1.4. DO NOT connect more than 2 (including 2) dimming interfaces simultaneously.
1.5. The digital display will show different information while connected to different dimming inputs:

Triac: Pc (phase cut) , DALI: 00 (DALI address) , Push Dim: Pd , 1-10V: (1-t) , after connecting a new dimming input, re-power on the driver, display will show Pc, control with current dimming input, the display will automatically change to show corresponding information of current dimming.

2. Set DALI Address Manually While Connected with DALI Input



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.

3. DALI Address Assigned by DALI Masters

3.1 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 an AC push switch, the digital display will show “PD” which means Push Dimmer Mode, operations under PUSH Mode are as follows:

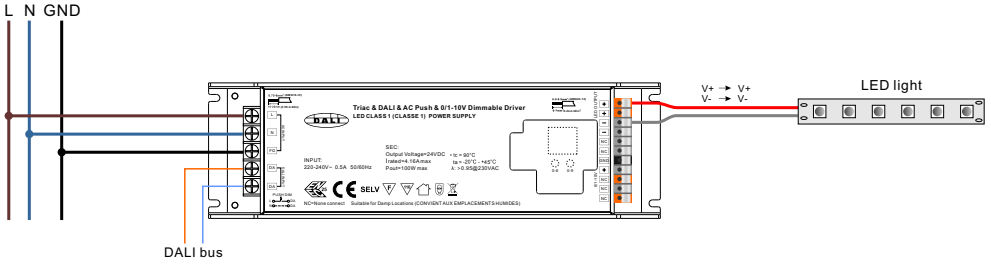
4.1. Click the button to switch ON/OFF
4.2. Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.
4.3. Memory function after power off or power failure enables the device to memorize the status before power off while power on again.

5. Triac Dimming Input

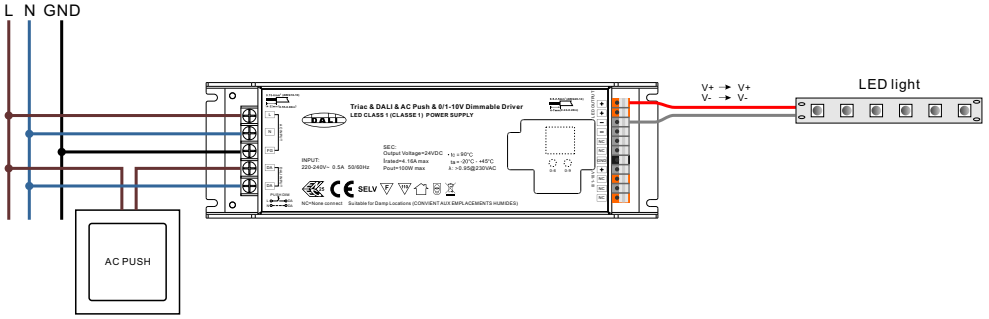
While connected with a Triac dimmer, different Triac dimmers from different suppliers may have different minimum dimming levels which the driver can not be dimmed below. To dim to 1%, please make sure the dimmer supports 1% minimum dimming level.

Wiring diagram

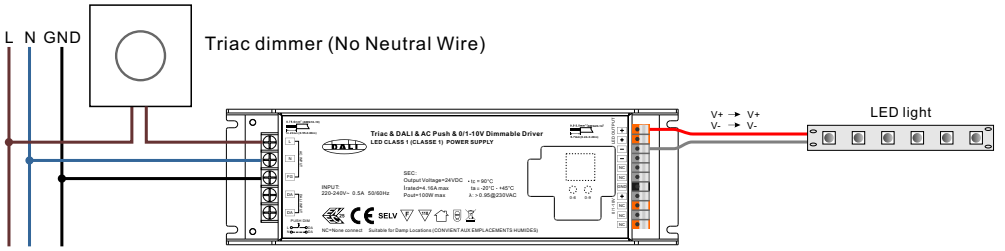
1.With DALI bus

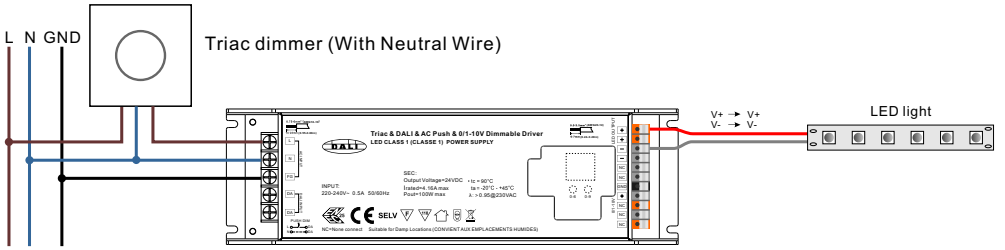


2.With PUSH dimmer

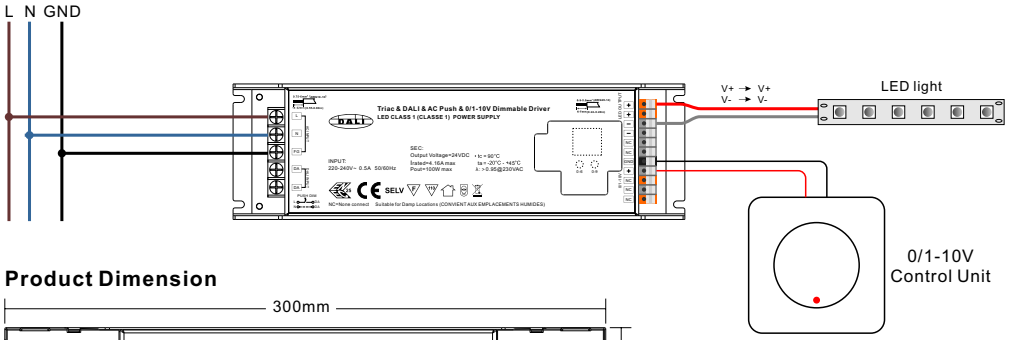


3.With Triac Dimmer





4.With 0/1-10V dimmer



Product Dimension

