200W DALI/Push+Triac+0/1-10V LED Driver

09.TR2002.04764

















Important: Read All Instructions Prior to Installation

Function introduction

AC power/ Triac signal input 0 0.75-0.50-0" (4000 Triac & DALI & AC Push & 0/1-10V Dimmable Driver LED CLASS 1 (CLASSE 1) POWER SUPPLY 1 chanel LED output DALL Output Voltage=24VDC • tc = 90°C ta = -20°C - +45°C Irated=8.3A max 0/1-10V signal input Prated=200W max λ:>0.95@230VAC 🔐 🕻 🗲 SELV 🔻 💖 🖒 🖲 🗵 Digital display

Product Data

DALI/AC push intput

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=8.32A
	Voltage Tolerance	±1%
	Rated Power	max. 200W
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.)	93% @ 230VAC full load
	AC Current (Typ.)	1A @ 230VAC
	Inrush Current (Typ.)	COLD START max. 65A 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 Over Temperature Yes, recovers automatically after fault condition is removed Yes, recovers automatically after fault condition is removed Yes, recovers automatically after fault condition is removed Working Temp. -25°C ~ +45°C Max. Case Temp. Working Humidity Storage Temp. & Humidity Safety Standards EN61347-1, EN61347-2-13 approved Withstand Voltage I/P-O/P: 3.75KVAC Isolation Resistance 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 193.6K hrs min. @ 230VAC full load and 25°C ambient temperature Dimension 240*72*36mm (L*W*H)			
Over Temperature Yes, recovers automatically after fault condition is removed Working Temp. Max. Case Temp. Working Humidity Storage Temp. & Humidity Safety Standards Withstand Voltage I/P-O/P: 3.75KVAC Safety & EMC EMC Emission EMC Immunity Yes, recovers automatically after fault condition is removed -25°C ~ +45°C 90°C Wax. Case Temp. 90°C EN61347-1, EN61347-2-13 approved I/P-O/P: 3.75KVAC I/P-O/P: 3.75KVAC EMC Emission EMC Immunity EN61547, EN61000-4-2,3,4,5,6,8,11, surge immunity Line-Line 1KV 193.6K hrs min. @ 230VAC full load and 25°C ambient temperature	Protection	Short Circuit	Yes, recovers automatically after fault condition is removed
Working Temp. Environment Max. Case Temp. Working Humidity Storage Temp. & Humidity Safety Standards Withstand Voltage Safety & EMC EMC Emission EMC Immunity Working Temp. \$40°C ~ +80°C, 10% ~ 95% RH EN61347-1, EN61347-2-13 approved I/P-O/P: 3.75KVAC Isolation Resistance I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH EMC 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 193.6K hrs min. @ 230VAC full load and 25°C ambient temperature		Over Current	Yes, recovers automatically after fault condition is removed
Max. Case Temp. Working Humidity Storage Temp. & Humidity Safety Standards Withstand Voltage Safety & EMC Emission EMC Immunity MTBF Max. Case Temp. 90°C 10% ~ 95% RH non-condensing 10% ~ 95% RH 10%		Over Temperature	Yes, recovers automatically after fault condition is removed
Environment Working Humidity 10% ~ 95% RH non-condensing Storage Temp. & Humidity Safety Standards Withstand Voltage Safety & Isolation Resistance EMC Emission EMC Immunity MTBF Working Humidity 10% ~ 95% RH non-condensing 10% ~ 95% RH EN61347-1, EN61347-2-13 approved I/P-O/P: 3.75KVAC I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH EN55015, EN61000-3-2, EN61000-3-3 EMC Immunity EN61547, EN61000-4-2,3,4,5,6,8,11, surge immunity Line-Line 1KV 193.6K hrs min. @ 230VAC full load and 25°C ambient temperature	Environment	Working Temp.	-25°C ~ +45°C
Working Humidity Storage Temp. & Humidity Safety Standards Safety Standards Withstand Voltage Safety & EMC EMC EMC Emission EN61547, EN61000-4-2,3,4,5,6,8,11, surge immunity Line-Line 1KV MTBF MTBF 10% ~ 95% RH non-condensing -40°C ~ +80°C, 10% ~ 95% RH EN61347-1, EN61347-2-13 approved I/P-O/P: 3.75KVAC I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH EN55015, EN61000-3-2, EN61000-3-3 EMC Immunity 193.6K hrs min. @ 230VAC full load and 25°C ambient temperature		Max. Case Temp.	90℃
## A Humidity Safety Standards		Working Humidity	10% ~ 95% RH non-condensing
Safety & EMC Safety & EMC Safety & Isolation Resistance EMC Emission EMC Immunity EMC Immunity			-40°C ~ +80°C, 10% ~ 95% RH
Safety & EMC I/P-O/P: 100M Ohms / 500VDC / 25°C / 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°C ambient temperature		Safety Standards	EN61347-1, EN61347-2-13 approved
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 MTBF 193.6K hrs min. @ 230VAC full load and 25°C ambient temperature		Withstand Voltage	I/P-O/P: 3.75KVAC
EMC Immunity EN61547, EN61000-4-2,3,4,5,6,8,11, surge immunity Line-Line 1KV 193.6K hrs min. @ 230VAC full load and 25°C ambient temperature		Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH
MTBF 193.6K hrs min. @ 230VAC full load and 25°C ambient temperature		EMC Emission	EN55015, EN61000-3-2, EN61000-3-3
Others ambient temperature		EMC Immunity	EN61547, EN61000-4-2,3,4,5,6,8,11, surge immunity Line-Line 1KV
7 7	Others	MTBF	
		Dimension	240*72*36mm (L*W*H)

- 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 > 93%
- · 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:

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

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 $\digamma \digamma$. Setting DALI address as F 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 | when the DALI master is assigning addresses. 4.PUSH Dimmer Mode

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

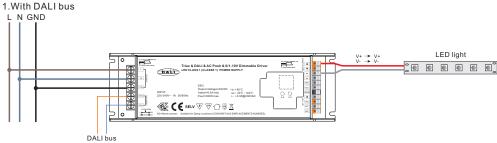
4.1. Click the button to switch ON/OFF

- 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.

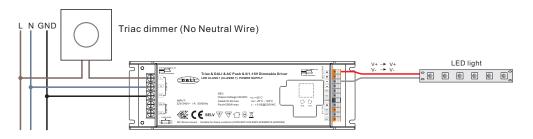
Wiring diagram

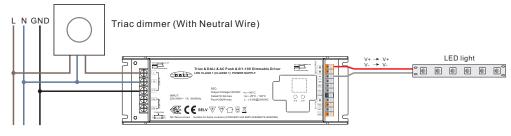


2.With PUSH dimmer

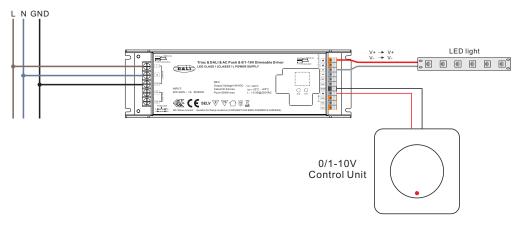


3. With Triac Dimmer





4.With 0/1-10V dimmer



Product Dimension

