

DLC002_EN 4Current V1.1.1

Category: LED Dimming Drivers and Accessories

Source model: DLC002_EN 4Current V1.1.1

Internal reference: HOION-CTRL-101

Product Overview

2.4G Wireless Self-inspection Sync Dimming Constant Current Driver (CCT)

Technical Details

Features

- 1) Isolated power supply
- 2) Adopt PWM technology
- 3) High efficiency/High PF/ flicker-free
- 4) Protected from miswire, over loading, over voltage, short circuit.
- 5) High quality smooth dimmingï¼1024 gradesï¼
- 6) With Power off memory function
- 7) 2.4GHz wireless controlï¼Air Self-inspection Sync control
- 8) With TUYA-2.4G converter module, realized phone, PAD, WIFI smart control
- 9) Applicable lampsï¼LED like LED panel, LED ceiling lamps, LED down light and others constant current lights
- 10) Applicable placeï¼Home, Shop, Hotel, Office and so on household/commercial indoor lighting
- 11) Certificationï¼CE/R&TTE/LVD/ROHS
- 12) Warranty 3 years

Driver Technical Parameters

| Electrical Performance Test are all in 25â±10% temperature environmentï¼230VAC/50HZ input

|
Factor |

Index |
32W

|
Input | Voltage Range | 90-264VAC

| Frequency Range | 47-63Hz

| ð¼ Rate Current | 0.2Aï¼full loadï¼

| Surge Current | 1ï¼50A

| Standby Power | ≤0.9W

| Overall Efficiency | 85%(full load)

| Power Factorï¼PFï¼ | 0.93ï¼full loadï¼

| THD | 17%

| Port | Two Wire inputï¼L/Nï¼

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Output | unloaded Voltage | 53V

| Voltage Range | 18V-42VDC

| String Number | 6-12 string

| Rate Current | 500mA-800mA

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| MAX Power | 32W

| Current accuracy | $\pm 5\%$

| PWM Signal Output Frequency | 3KHz

| Dimming Grade | 1024

| Dimming Range | 3-100%

| Video effect | Free-flicker

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Reliability | Power Supply | Isolated Power Supply

| Working Temperature Ta | -20°C ~ 45°C

| Case Max Working Temperature Tc | 85°C
(working temperature 45°C ~ 85°C Max power)

| Storage Temperature | -40°C ~ 85°C
(relative hnmidity 20%~90% non-condensing)

| Life | 45000 hours (25~ $\pm 10\%$ temperature environment~230VAC input~100% LOAD)

| Warranty | 3 years

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Safety and EMC | Certification CE-LVD | EN61347-1~EN61347-2-13

| Electromagnetic Compatibility CE-EMC | EMI~EN55022~EN61000-3-3~
EMSi~EN55024~EN61000-4-2,3,4,5,6,11~

| Withstand voltage | I/P-O-P:3.75KVDC

| Insulation Resistance | $\geq 100\text{M}\Omega$ (in 25°C ~ $\pm 10^{\circ}\text{C}$ temperature environment~lower than 70% relative hnmidity ~Input to output~input to ground~output to ground~apply 500VDC voltage respectively~Time is 60s)

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Protection | IP | IP40

| Over Voltage Protection | Yes~lower than 53V)

| Short Circuit Protection | Yes (When short circuit enter intermittent mode, restore output automatically after short circuit remove)

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Other | Wireless Control | 2.4GHz

| Remote Control Distance | 30m

| Memory Function | Yes

| Product G.W. | 165g

| Product Size | L163*W46*H25mm

| Packing Size | L167*W50*H26mm

3KV Surge Testing

|
Angel |
Positive or Negative |
Times |
Pass/Fail

| 0 | + | 5 | Pass

| 0 | - | 5 | Pass

| 90 | + | 5 | Pass

| 90 | - | 5 | Pass

| 180 | + | 5 | Pass

| 180 | - | 5 | Pass

| 270 | + | 5 | Pass

| 270 | - | 5 | Pass

Regular Model Driver Technical Parameters

1) regular Model Technical Parameters

| Model | Rate Power | Rate Current/CH | Voltage Range | Series LED

| DLC002-32-080 | 34W | 800mA | 18-42V DC | 6i½□12 LEDs

| DLC002-30-070 | 30W | 700mA | 18-42V DC | 6i½□12 LEDs

| DLC002-25-060 | 25W | 600mA | 18-42V DC | 6i½□12 LEDs

| DLC002-21-050 | 21W | 500mA | 18-42V DC | 6i½□12 LEDs

Remark: other technical parameter please contact us.

Port Instruction

DIP switch & current

| 500mA | 600mA | 700mA | 800mA

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Product Compatibility: Applicable for remote:

| Item: HX-RFBT-2.4Gi□1 zone | Item: HX-RFBT10-2.4G (4 zone) | Item: HX-RFBT12-2.4Gi□1 zone |

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| Item: HX-RFBT15i□1 zone | Item: HX-HWP86-CCT-4Si□4 zone | Item: HX-HWP86-XSPi□4 zone |

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| Item: HX-HWP86-SRi□PIR/Lux-sensor | Item: HX-WP86-AP (RF signal repeater) | Item: HX-TUYA-2.4G-CCT

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Typical Applications

1) Compatible with a variety of models of remote control at the same time, could be matched according to project situation

2)

Wireless-synchronization function

Receivers which with wireless-synchronization functions will transmit the control signals from the remote control and self-inspection the work statues for each other, so multiple receivers in same zone will wireless-sync-work completely, not only static mode but also dynamic mode, to achieve wired-like operation experience. The distance up to 20 meters between remote control to receiver, and up to 10 meters between 2 receivers. RF wireless signal repeater is suggested in over range distance or when the workable distance is shorter by the materials of space, the effective range up to 30 meters.

3) 1 zone remote typical application, multi drivers could be wireless-sync controlled by the same one remote control.

4) 4 zones remote typical application, multi drivers could be controlled in each zone. 4 zone could be respectively and allover controlled

5) With TUYA-2.4G converter module, it can realize mobile phone intelligent lighting system control

Tips:

- 1) If the lamp turned off by remote control, it also can restart the lamp directly by the AC power switch(No-flicker driver need to restart after turn off the power switch and discharge for 5s.
- 2) If the lamp is light up without any operation in 167 hours, the driver will turn off the lamp automatically. It will recount the time if there is any operation from power switch or remote control.
- 3) Memory function, each time power-on reserve the mode which stop in the last power-down.
- 4) For operations and precautions related to lighting system settings, please refer to the operating instructions of the relevant remote control.

Source reference: <https://www.hoionlighting.com/a/pics/ledkongzhiqi/2021/0416/295.html>