

Model: TGSC-IH12-42-B1-XXXX

## 1. Product description

- Wireless dimmable and CCT tunable
- No need install control wire and other controllers
- Two channels output, common anode
- External constant current driver
- 3 years warranty
- Compatible with TIGI multifunction remote controllers, 86 control panel, scene mode controller and constant illumination sensor
- Low Cost Solution



## 2. Functions

- Wireless Dimming and CCT tuning by RF-2.4G Controllers
- Groups control: 100 groups individually (refer to page 04 for multifunction remote controller)
- Scene mode control (refer to page 04 for scene mode controller)
- short-circuit protection
- No-load protection
- Surge protection voltage 2KV

## 3. Application

Residential lighting, office lighting, commercial lighting



For dimmable and tunable CCT application

The functions of driver are realized by TIGI DIGITAL controllers,  
 please refer to TIGI DIGITAL controllers datasheet for more details.

## 4. Technical Data

### For Driver

|                        |                        |
|------------------------|------------------------|
| Model No.              | TGSC-IH12-42-B1-XXXX ① |
| Rated Input Voltage    | 100-240V               |
| Max Input Current      | 0.25A                  |
| Mains Frequency        | 50/60Hz                |
| Output Voltage         | 30-42V DC              |
| Output Current Range   | 150-300mA              |
| Dimming Range          | 8%-100%                |
| Efficiency             | > 80%                  |
| Power Factor@full load | > 0.5                  |
| Life Span              | 20,000Hours            |
| Ambient Temperature Ta | -20°C...+45°C          |
| Storage Temperature Ts | -20°C...+80°C          |
| Dimension              | 120x38x24mm            |

① XXXX represents the output current with unit mA, 50mA as per level. For example, TGSC-IH12-42-B1-0300 means the output is 300mA. Please refer to page3 for more details about this series

### For RF-2.4G

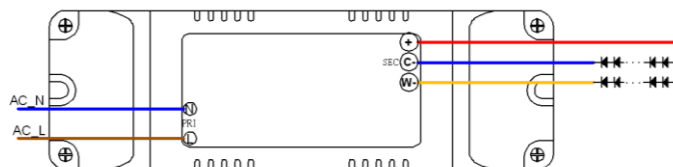
|                       |                           |
|-----------------------|---------------------------|
| Controllable Distance | 30Meters without Obstacle |
| Protocol              | TIGI RF-2.4G              |
| Frequency Range       | 2402Mhz....2482Mhz        |
| Modulation Type       | GFSK                      |
| Antenna Type          | Integral antenna          |
| Antenna Quantity      | 1                         |
| Antenna Gain          | 0dBi                      |
| Operating Temperature | -20°C...+85°C             |

## 5. Standard

|     |              |
|-----|--------------|
| LVD | EN61347-2-13 |
|-----|--------------|

## 6. Installation and Wiring

### 6.1 Wiring Diagram

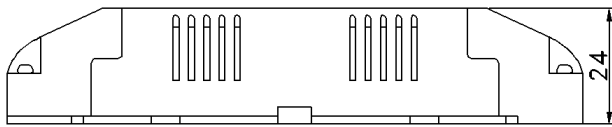
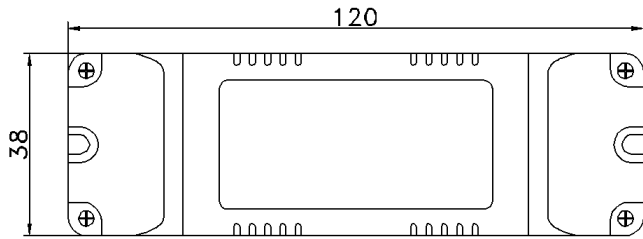


- Two channels output, common anode, C- for cool white LED, W- for warm white LED
- Suggestion 1: make all connection as short as possible to ensure good EMC behavior.
- Suggestion 2: use 0.75-1.0mm<sup>2</sup> wire, strip length 3-5mm

### 6.2 Installation

- Heat dissipation must be considered before installation.
- Metal shielding is not allowed without putting the antenna out.
- Keep the drivers as far as possible away from electromagnetic interference in the surrounding environment to ensure RF controlling behavior.
- Make sure to keep mains off while installation.

## 7. Dimension



Unit:mm

## 8. Packing data

|                   |                |
|-------------------|----------------|
| Weight per PCS    | 70g            |
| Quantity/Carton   | 120PCS         |
| Weight per Carton | 9KG            |
| Size of Carton    | 35cm*30cm*22cm |

The packing data is for reference, the exact data subjects to the packing requirement of customers.

## 9. All models and specifications

TGSC-IH12-42-B1-XXXX is the general series number, it includes the following models:

| Model Number         | Input Voltage/V | Max Input Current/mA | Input Power/W | Output Voltage/V | Output Current/mA | Max Output Power/W | Max Output Voltage/V |
|----------------------|-----------------|----------------------|---------------|------------------|-------------------|--------------------|----------------------|
| TGSC-IH12-42-B1-0150 | 100-240AC       | 205                  | 38            | 30-42V           | 150               | 6.3                | 50                   |
| TGSC-IH12-42-B1-0200 | 100-240AC       | 220                  | 40.2          | 30-42V           | 200               | 8.4                | 50                   |
| TGSC-IH12-42-B1-0250 | 100-240AC       | 235                  | 42.5          | 30-42V           | 250               | 10.5               | 50                   |
| TGSC-IH12-42-B1-0300 | 100-240AC       | 245                  | 45            | 30-42V           | 300               | 12.6               | 50                   |

## 11. TIGI DIGITAL System Functions

TIGI DIGITAL system is the dimmable and CCT tunable system base on RF-2.4G wireless control. This system contains different kind of drivers and controllers for different application.

### 11.1 TIGI Multifunction Remote Controller

- One controller can control 100 Groups.
- 4 Step dimming and CCT adjusting
- Step-less dimming and CCT Adjusting
- All Control: All the lights that have matched with this remote can be controlled together.
- Certification: RED(approved by TUV)
- More Functions: Scene Mode( A and B),Timing ON/OFF ,ID Setting ( ID copy and reset)



### 11.2 TIGI DIGITAL 86 Controller

- One controller can control 6 Groups.
- Suitable to install on the wall or put on the table.
- Step-less dimming and CCT Adjusting
- All Control: All the lights remote can be controlled



### 11.3 TIGI DIGITAL Scene Mode Controller

- One controller can control one Group.
- 4 Scene modes
- Step-less dimming and CCT Adjusting



**For more details of above controllers, please refer to the datasheet.**

### Note

- Tigi Digital reserves the right to make changes or corrections to the products at any time without notice. Customers should verify the datasheets are current and complete before placing order.
- The improvement of our products is endless ,we will be always trying our best to provide better products for our customers.
- All the contents above are only for reference , The actual parameters are based on the approval sheet of our company.