

## 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

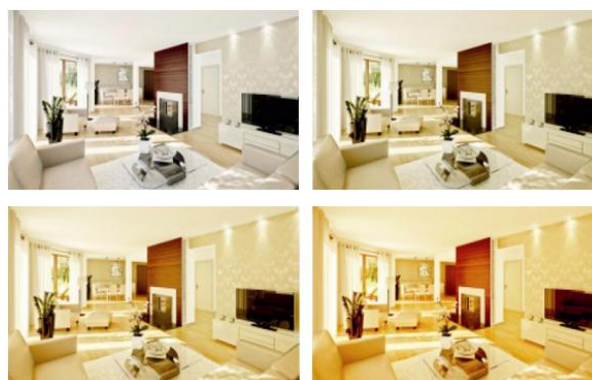


## 2. Functions

- 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-IH24-42-B1-XXXX ①
Rated Input Voltage	100-240V
Max Input Current	0.606A
Mains Frequency	50/60Hz
Output Voltage	30-42V DC
Output Current Range	350-600mA
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-IH24-42-B1-0400 means the output is 300mA. Please refer to page3 for more details about this series

**For RF-2.4G**

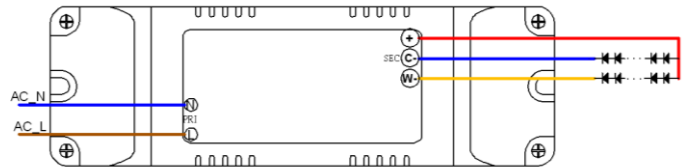
Controllable Distance	30Meters without Obstacle
Protocol	TIGI RF-2.4G
Frequency Range	2402Mhz....2482Mhz
Modulation Type	GFSK
Antenna Type	Integral antenna
Antenna Quantity	1
Antenna Gain	0dBi
Operating Temperature	-20°C...+85°C

**5. Standard**

LVD	EN61347-2-13
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**6. Installation and Wiring**

**6.1 Wiring Diagram**

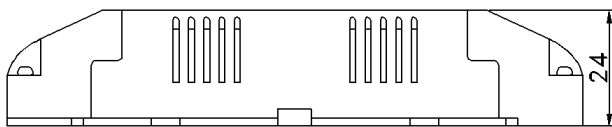
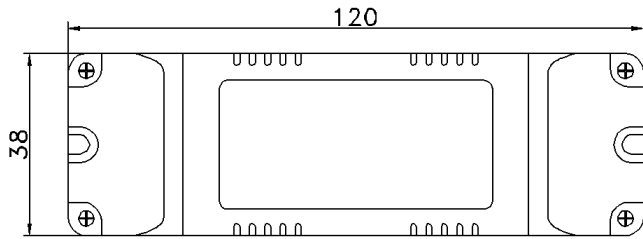


- Two channels output, common anode, C- for cool white LED,W-for warm white LED
- Suggestion 1: make all connection as short as possible to ensure good EMC behavior.
- Suggestion 2: use 0.75-1.0mm<sup>2</sup> wire, strip length 3-5mm

**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	90g
Quantity/Carton	120PCS
Weight per Carton	12.5KG
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-IH24-42-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-IH24-42-B1-0350	100-240AC	354	17.7	30-42V	350	14.7	50
TGSC-IH24-42-B1-0400	100-240AC	404	20.2	30-42V	400	16.8	50
TGSC-IH24-42-B1-0450	100-240AC	456	22.8	30-42V	450	18.9	50
TGSC-IH24-42-B1-0500	100-240AC	506	25.3	30-42V	500	21	50
TGSC-IH24-42-B1-0550	100-240AC	556	27.8	30-42V	550	23.1	50
TGSC-IH24-42-B1-0600	100-240AC	606	30.3	30-42V	600	25.2	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.