

LED Driver

Wireless Dimmable and CCT Tunable

Model: TGPC-IH46-42-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
- EMC Comply with EN55015 and EN300440
- TUV-mark、CE、SAA、CB certificated
- 3 years warranty
- Compatible with TIGI multifunction remote controllers,86 control panel, scene mode controller and constant illumination sensor

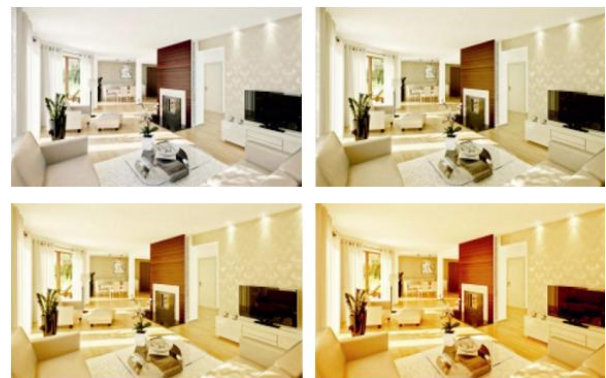


3. Application

Residential lighting, office lighting, commercial lighting

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 1KV



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.	TGPC-IH46-42-B1-XXXX ①
Rated Input Voltage	220-240V
Max Input Current	0.28A
Mains Frequency	50/60Hz
Output Voltage	30-42V DC
Output Current Range	800-1100mA
Dimming Range	8%-100%
Efficiency	> 85%
Power Factor@full load	> 0.95 ②
Power Factor@50% load	> 0.9
THD@full load	< 15% ③
THD@50% load	< 20%
Life Span	20,000Hours
Ambient Temperature Ta	-20℃...+45℃
Storage Temperature Ts	-20℃...+80℃
Dimension	160x50x33mm

① XXXX represents the output current with unit mA, 50mA as per level. For example, TGPC-IH46-42-B1-1100 means the output is 1100mA. Please refer to page3 for more details about this series

② For the Power Factor in different statue of the drivers, please refer to the data on page4

③ For the THD in different statue of the drivers, please refer to the data on page4

For RF-2.4G

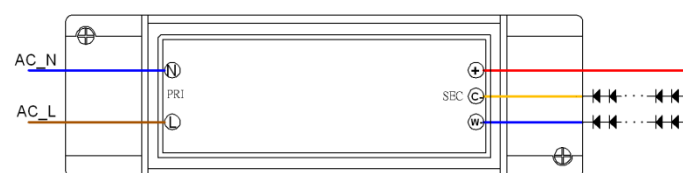
Controllable Distance	30Meters without Obstacle
Protocol	TIGI RF-2.4G
Frequency Range	2402Mhz....2482Mhz
Modulation Type	GFSK
Antenna Type	Integral antenna
Antenna Quantity	1
Antenna Gain	0dBi
Operating Temperature	-20℃...+85℃

5. Standard

LVD	EN61347-2-13
EMI	EN55015
RED	EN300 440
RED	EN301489-1/ EN301489-3
EMS	IEC6100-3-2/IEC6100-3-3
EMS	IEC6100-4-2/ IEC6100-4-3/ IEC6100-4-4
EMS	IEC6100-4-5/ IEC6100-4-6/ IEC6100-4-8

6. Installation and Wiring

6.1 Wiring Diagram

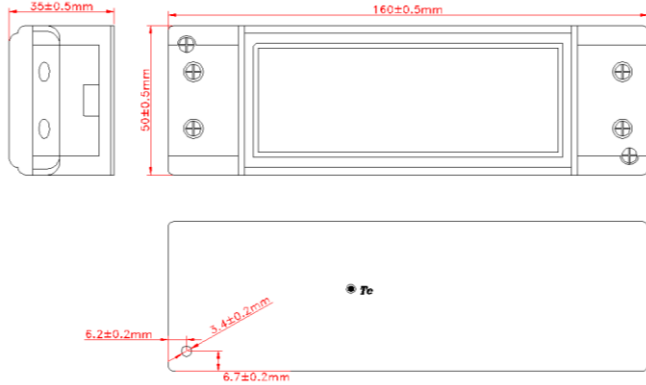


- Two channels output, common anode, C- for cool white LED, W- for warm white LED
- Suggestion 1: make all connection as short as possible to ensure good EMC behavior.
- Suggestion 2: use 0.75-1.0mm² wire, strip length 3-5mm

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



8. Packing data

Weight per PCS	150g
Quantity/Carton	50PCS
Weight per Carton	15KG
Size of Carton	35cm*30cm*22cm

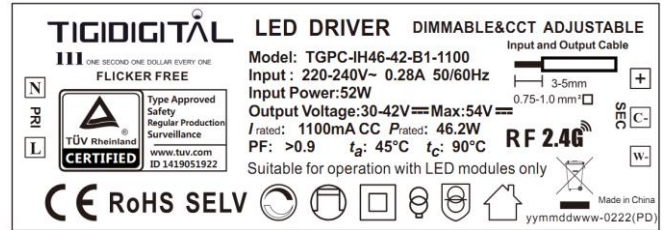
The packing data is for reference, the exact data subjects to the packing requirement of customers.

10. All models and specifications

TGPC-IH46-42-B1-XXXX is the general series number, it includes the following models:

Model Number	Input Voltage/V	Input Current/mA	Input Power/W	Output Voltage/V	Output Current/mA	Output Power/W	Max output voltage/V
TGPC-IH46-42-B1-0800	220-240AC	205	38	30-42V	800	33.6	54
TGPC-IH46-42-B1-0850	220-240AC	220	40.2	30-42V	850	35.7	54
TGPC-IH46-42-B1-0900	220-240AC	235	42.5	30-42V	900	37.8	54
TGPC-IH46-42-B1-0950	220-240AC	245	45	30-42V	950	39.9	54
TGPC-IH46-42-B1-1000	220-240AC	260	47.2	30-42V	1000	42.0	54
TGPC-IH46-42-B1-1050	220-240AC	270	50	30-42V	1050	44.1	54
TGPC-IH46-42-B1-1100	220-240AC	280	52	30-42V	1100	46.2	54

9. Label



For other models of this series, the labels will be the same except of the model number and specification. Please refer to page 3 for more details.

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)



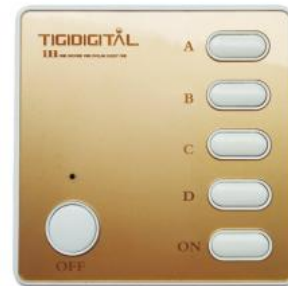
11.2 TIGI DIGITAL 86 Controller

- 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.