

IHYCTV T5-288-G05-865

IHYCTV T5 LED 12-inch G5 5W 6500K LED Replacement Bulb Instruction Manual

Model: T5-288-G05-865

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your IHYCTV T5 LED 12-inch G5 5W 6500K LED Replacement Bulb. Please read these instructions carefully before installation and retain them for future reference. This LED tube is designed as a direct replacement for F8T5/D fluorescent bulbs with a G5 socket in fixtures equipped with an Electronic Ballast (EVG).

2. SAFETY INFORMATION

- **Electrical Safety:** Always disconnect power to the fixture before installing or removing the bulb to prevent electric shock.
- **Ballast Compatibility:** This LED tube **must** be used with an electronic ballast (EVG). It is **not** suitable for use with magnetic ballasts (KVG or VVG) or for direct connection to 110-120V AC mains voltage without a compatible ballast. Using it with an incompatible ballast or direct mains voltage can cause damage to the bulb, fixture, or pose a fire hazard.
- **Non-Dimmable:** This product is non-dimmable. Do not attempt to use it with dimmer switches.
- **Indoor Use Only:** Designed for indoor lighting applications.
- **Handling:** Handle the bulb carefully to avoid breakage.

EVG LED TUBE

PLUG AND PLAY TUBE

COMPATIBLE WITH BALLAST

T5 LED TUBE
HF/F8 T5 5W /865

G5 Base

G5 pin
(Used in G5 base)

4.6 mm

⚠ This tube must be used together with the ballast.

Compatible with electronic ballasts (no rewiring needed).
Can be installed as a direct replacement without the need for rewiring, removal, or bypassing of the electronic ballasts.
Plug and Play directly as a replacement for T5 compact fluorescent tubes for electronic ballasts (EVG).
Fast installation saves on professional electrician modification costs, and with 135 lumens per watt, you can reduce your electricity bill by 50%. It is low-carbon, energy-saving, and convenient.

Image: Detail of the G5 bi-pin base and a warning indicating compatibility with electronic ballasts (EVG) and the necessity of using the tube with a ballast.

3. PRODUCT OVERVIEW

The IHYCTV T5 LED replacement bulb offers an energy-efficient and long-lasting alternative to traditional fluorescent tubes. It provides bright daylight white illumination suitable for various indoor applications.

- **Energy Saving:** 5W LED replaces 8W fluorescent bulbs, reducing electricity consumption by approximately 50%.
- **High Luminous Efficiency:** Delivers 685 lumens with 135 lumens per watt.
- **Daylight White:** 6500K color temperature for a bright, crisp light.
- **Long Lifespan:** Rated for 50,000 hours, minimizing replacement frequency.
- **Eye-Friendly:** Features high color uniformity and flicker-free immediate activation.



Image: Key product specifications including 12-inch/288mm length, 82 CRI, 50,000 hours lifetime, 685 lumens, 6500K CCT, 5W power, and CE/ROHS certification.

4. SETUP AND INSTALLATION

This LED tube is designed for direct relamping, meaning it can be installed without rewiring or modifying your existing fixture, provided it uses an electronic ballast (EVG).

1. **Power Off:** Ensure the power supply to the light fixture is completely turned off at the circuit breaker before beginning installation.
2. **Remove Old Bulb:** Carefully remove the existing fluorescent T5 bulb from the fixture.
3. **Insert LED Tube:** Align the G5 bi-pin base of the IHYCTV T5 LED tube with the sockets in the fixture. Gently push and twist until the pins are securely seated.
4. **Restore Power:** Once the LED tube is securely installed, restore power to the fixture at the circuit breaker.
5. **Test:** Turn on the light switch to verify proper operation.

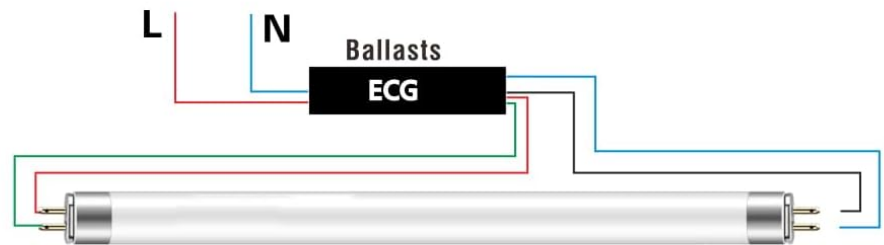
Important: This LED tube is compatible with electronic ballasts (EVG). Do not attempt to install it in fixtures with

magnetic ballasts (KVG/VVG) or directly to AC mains without a compatible ballast. If unsure about your ballast type, consult a qualified electrician.

COMPATIBLE WITH



Ballast EVG



DIRECTLY REPLACE

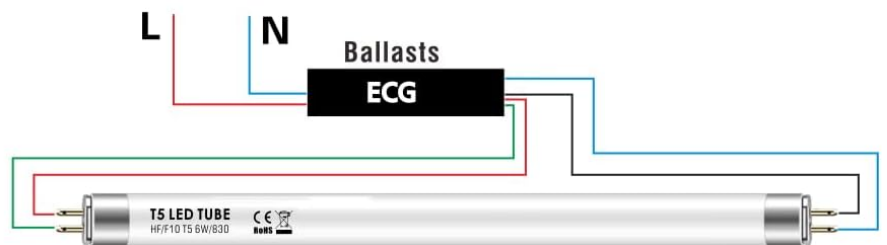


Image: Wiring diagram showing how the T5 LED tube directly replaces a fluorescent tube in a fixture that uses an electronic ballast (EVG). No rewiring is needed for this type of ballast.

5. OPERATING INSTRUCTIONS

Once installed, the IHYCTV T5 LED bulb operates like a standard fluorescent bulb. Simply use the existing light switch to turn the light fixture on or off. The LED bulb provides instant-on illumination without flickering.



Image: A T5 LED bulb shown with a desk lamp, demonstrating a common application for this type of lighting.

6. MAINTENANCE

- **Cleaning:** Ensure the power is off before cleaning. Wipe the bulb with a soft, dry cloth. Do not use liquid cleaners or abrasive materials.
- **Replacement:** Due to its long lifespan, frequent replacement is not expected. If replacement is needed, follow the installation steps in Section 4.
- **Disposal:** Dispose of old bulbs according to local regulations for electronic waste.

7. TROUBLESHOOTING


Problem	Possible Cause	Solution
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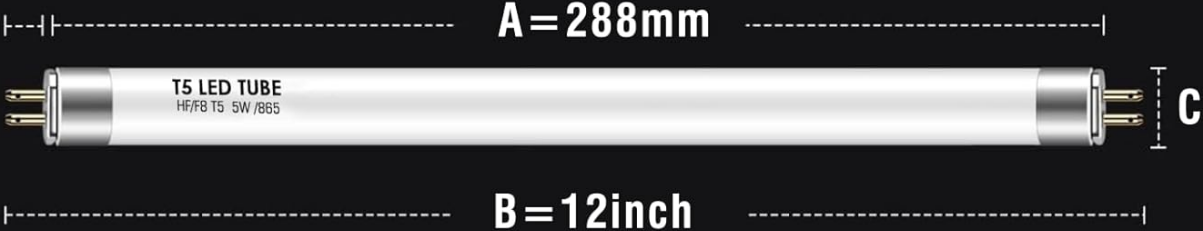
Problem	Possible Cause	Solution
Bulb does not light up.	<ul style="list-style-type: none"> No power to the fixture. Bulb not properly seated. Incompatible ballast (magnetic). Faulty ballast. Damaged bulb. 	<ul style="list-style-type: none"> Check circuit breaker and light switch. Ensure bulb pins are fully inserted and twisted. Verify fixture has an electronic ballast (EVG). This bulb is not compatible with magnetic ballasts. If ballast is faulty, it may need replacement or bypassing by a qualified electrician (only if the LED tube supports direct wiring, which this one does not). Replace the bulb.
Flickering or inconsistent light.	<ul style="list-style-type: none"> Incompatible ballast. Loose connection. Faulty ballast. 	<ul style="list-style-type: none"> Ensure fixture has an electronic ballast (EVG). Check bulb seating. Consult a qualified electrician to inspect or replace the ballast.
Buzzing noise from fixture.	<ul style="list-style-type: none"> Incompatible ballast. Faulty ballast. 	<ul style="list-style-type: none"> This LED tube is designed for quiet operation with EVG ballasts. If buzzing occurs, the ballast may be incompatible or faulty. Consult a qualified electrician.

8. SPECIFICATIONS

Brand	IHYCTV
Model Name	F8T5DL LED Replacement (T5-288-G05-865)
Light Type	LED
Wattage	5 Watts
Incandescent Equivalent	8 Watts
Bulb Shape Size	T5 1/2
Bulb Base	G5
Brightness	685 Lumens
Light Color	Daylight White
Color Temperature	6500 Kelvin
Color Rendering Index (CRI)	82.00
Beam Angle	140 Degrees
Average Life	50,000 Hours
Product Dimensions	0.63"W x 12"H (16mm diameter x 288mm length)


Material	Aluminum, Plastic
Special Features	EVG Ballast Required, Ease of Installation, Eye-Friendly, High Efficiency, Instant On
Dimmable	No
Certifications	CE, FCC, RoHS





ORDER INFORMATION

LEDTUBE SIZE(mm)



CODE	A	B	C(max)	CCT	POWER	BASE
T5-288-830	288	302	Φ 16	3000K	5w	G5
T5-288-840	288	302	Φ 16	4000K	5w	G5
T5-288-865	288	302	Φ 16	6500K	5w	G5

Image: Dimensional drawing of the T5 LED tube, showing its length (288mm or 12 inches) and diameter (16mm), along with a table listing different color temperature options (3000K, 4000K, 6500K) for the 5W G5 base LED tube.

9. PRODUCT VIDEO



Video: This video demonstrates the IHYCTV T5 LED bulb's compatibility with electronic ballasts and its direct replacement capability. It highlights the ease of installation and energy-saving benefits compared to traditional fluorescent lamps.

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact IHYCTV customer service through your retailer or the official brand website. Keep your purchase receipt for warranty claims.

