



ATG Electronics® iBright™ E28i LED Tubes (G2 EPS) USER GUIDE

Part Number HFL-8030N-060601-00
HFL-8060N-120601-00
HFL-8081N-150601-00



NOTE:

Please read this entire manual to fully understand and safely use this product.

Specifications are subject to change without notice. Please visit www.atgelectronics.com for the most recent user guide versions.

Included in this Box

ATG Electronics® iBright™ E28i T8 LED Tube, 1 PCs

User Guide, 1 Set

Accessory Kit, 1 Set, including

-External Power Supply, 1 PCs

-Wire Nuts, 5 PCs

-Screws, 3 PCs

-3M Adhesive Tape

-Warning Label "The end retrofit luminaire has been modified and can no longer operate the originally intended lamp", 1PCS



IMPORTANT SAFETY INSTRUCTIONS

DANGER-RISK OF SHOCK-DISCONNECT POWER BEFORE INSTALLATION.

WARNINGS:

- 1) THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.
- 2) WARNING - Risk of fire or electric shock. The electrical rating of these products is 100-277 VAC, The installer must determine whether they have 100-277 VAC at the luminaire before installation.
- 3) WARNING - Risk of fire or electric shock. Reflector kit installation requires knowledge of fluorescent lighting luminaire electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
- 4) WARNING - Risk of fire or electric shock. Install this kit only in the luminaire that has the construction features and dimensions shown in the photographs and/or drawings.

ATG
Electronics Corp.

Light your world
Color your life!

- 5) WARNING - To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- 6) WARNING – Risk of fire or electric shock. Luminaire wiring, ballasts, or other electrical parts may be damaged when drilling for installation of reflector kit hardware. Check for enclosed wiring and components.
- 7) WARNING – Risk of fire or electric shock. Do not use this retrofit kit in luminaires employing shunted bi-pin lampholders.
- 8) THE RETROFIT ASSEMBLY IS ACCEPTED AS A COMPONENT OF A FLUORESCENT LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY CSA OR AUTHORITIES HAVING JURISDICTION.
- 9) Warning Label “The end retrofit luminaire has been modified and can no longer operate the originally intended lamp” Shall be marked on the retrofit luminaire where readily visible by the user.
- 10) How to buy the replacements?
Please check www.atgelectronics.com to make your orders.

PLANNING THE INSTALLATION

iBright™ E28i can ONLY work with specific matching external power supply. Unmatched or other specification power supplies will make iBright™ E28i burn out. Shown below in table 1 are matching external power supplies compatible with iBright™ E28i.

Table 1: iBright™ E28i VS. Matching External Power Supply

iBright™ E28i	Matching External Power Supply
HFL-8030N-060601-00 (30LEDs, 0.6m)	LD12W-36-C0270
HFL-8060N-120601-00 (60LEDs, 1.2 m)	LD20W-36-C0550
HFL-8081N-150601-00 (81LEDs, 1.5m)	LD25W-36-C0810

Installation Steps

iBright™ E28i works ONLY with specific matching external power supply, which can be found in the package.

For retrofit or new installation, existing ballast shall be replaced with the matching external power supply, existing starter shall be removed, and circuit shall be reconfigured.

Before retrofit fluorescent luminaire, please make sure the dimensions of existed luminaire larger than the dimension noted as below Figure 1.

Figure 1: T8 Luminaire Dimensions: (Unit: mm)



Note:“W” represents the width of luminaire, “L” represents the length of luminaire.

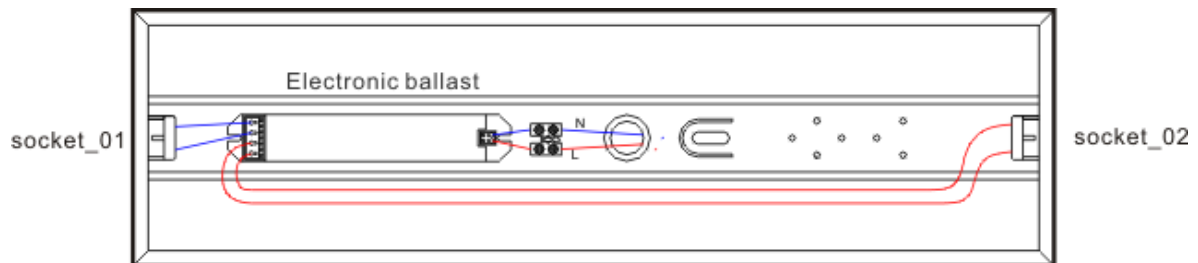
Table 2: Minimum Luminaire Dimensions

Model of LED tube	Minimum Luminaire DIM: L×W (mm)		
	Fit one lamp	Fit two lamp	Fit three lamp
HFL-8030N-060601-L3	620 x 180	620 x 360	620 x 540
HFL-8060N-120601-L3	1240 x 180	1240 x 360	1240 x 540
HFL-8081N-150601-L3	1550 x 180	1550 x 360	1550 x 540

● Retrofit Luminaire with Electronic Ballast

Before

Figure 2



Installation Steps

Step 1: Turn off main power before installation

For safety, make sure main power source is switched off before attempting to install.

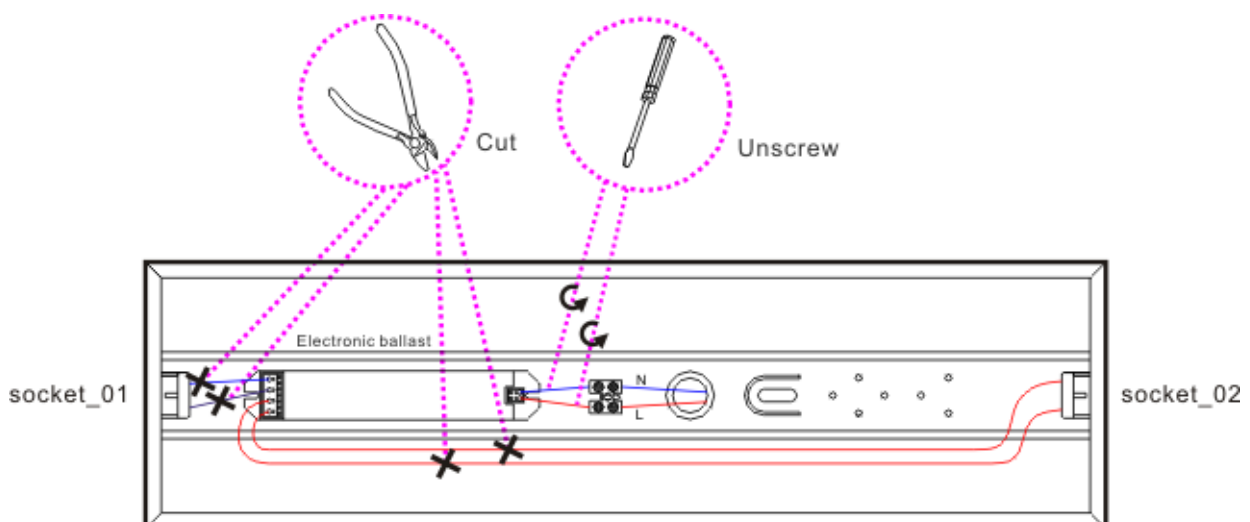
Step 2: Take existing fluorescent light out.

Existing fluorescent light is not needed. You might recycle it as appropriate.

Step 3: Open the ballast cover and disconnect all power wires from ballast and take the ballast out of the fluorescent luminaire shown as Figure 3 below.

Keep one wire of each socket to connect with the external power supply. The other wire shall be cut off immediately near the socket.

Figure 3



Step 4: Install the MATCHING external power supply shown as Figure 4 below.

The external power supply is sized to match the luminaire and to be installed near the middle of the luminaire by 3M tape and screws provided.

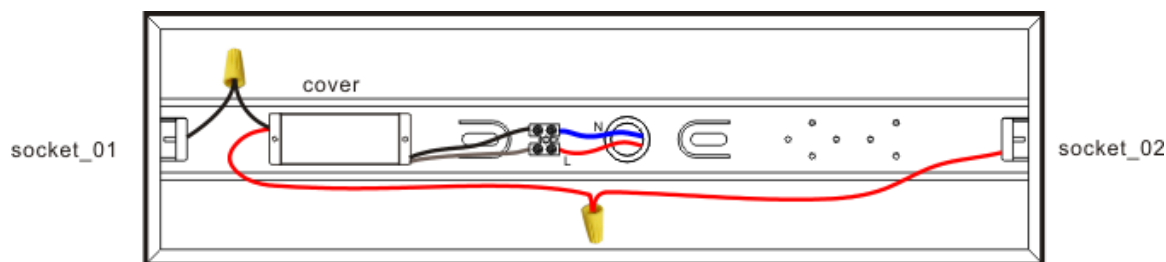
Connect input wires of external power supply to main power outlet.

Connect output wires of external power supply to one of wires of T8 sockets at both sides with wire nuts.

Place the existing cover back to protect the external power supply.

After

Figure 4

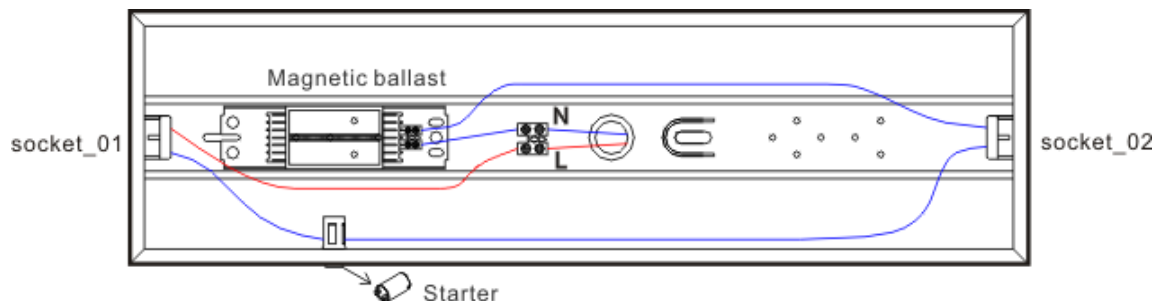


Step 5: Drop iBright™ E28i into fluorescent luminaire. Switch main power on to light up iBright™ E28i (G2 EPS)

● Retrofit Luminaire with Magnetic Ballast

Before

Figure 5



Installation Steps

Step 1: Turn off main power before installation

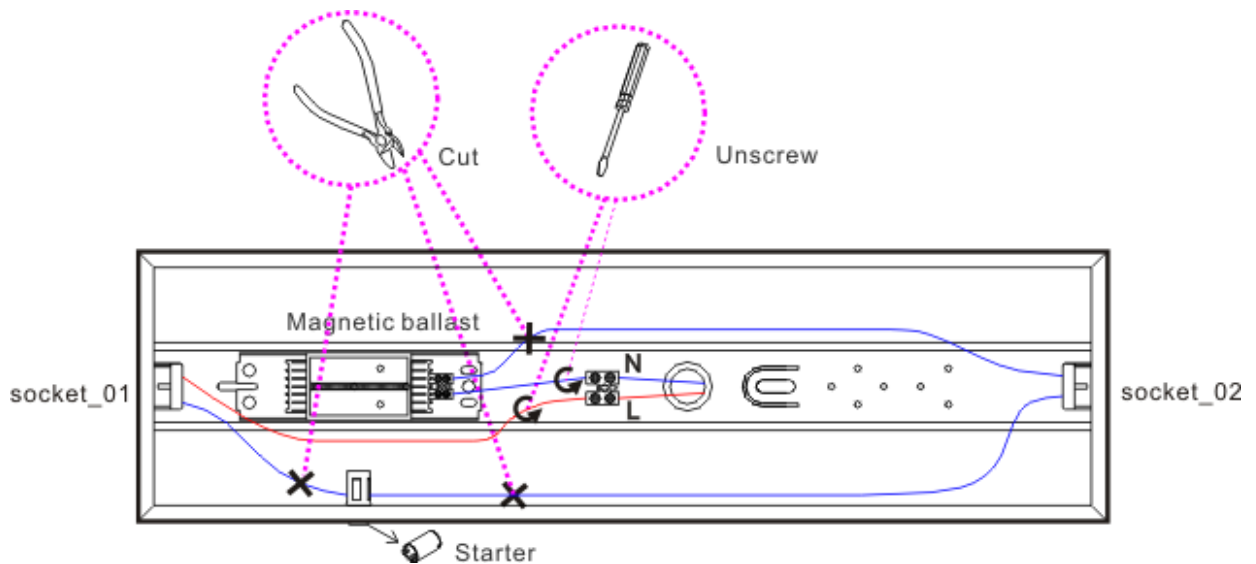
For safety, make sure main power source is switched off before attempting to install.

Step 2: Take existing fluorescent light out.

Existing fluorescent light is not needed. You might recycle it as appropriate.

Step 3: Open the ballast cover and disconnect all wires from ballast and starter from T8 sockets shown as Figure 6 below. Remove ballast from the fluorescent luminaire and recycle it as appropriate; keep starter in position; keep one wire of each socket to connect with the external power supply. The other wire shall be cut off immediately near the socket.

Figure 6



Step 4: Install the MATCHING external power supply shown as Figure 7 below.

The external power supply is sized to match the luminaire and to be installed near the middle of the luminaire by 3M tape and screws provided.

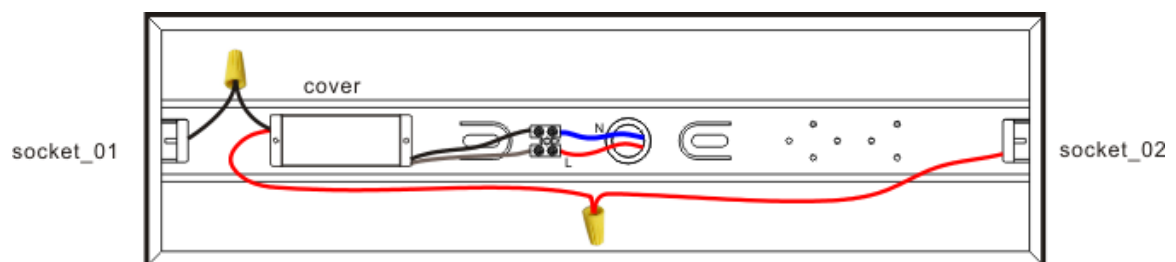
Connect input wires of external power supply to main power outlet.

Connect output wires of external power supply to one of wires of T8 sockets at both sides with wire nuts.

Place the existing cover back to protect the external power supply.

After

Figure 7



Step 5: Drop iBright™ E28i T8 into fluorescent Luminaire. Switch main power on to light up iBright™ E28i.

ATG Electronics® iBright™ E28i T8 LED Tube Specifications

Input Voltage: Max.36VDC (Input Voltage of External Power Supply: 100-277VAC)

Color: White

LED Qty: 30LEDs, 60LEDs, 81LEDs

Power Consumption: 11W ±2W, 20W ±2W, 30W ±2W

Beam Angle: 120 degree

Length: 600mm, 1200mm, 1500mm

Work Environment: Indoor use, dry environments

* For detailed specifications please refer to the product catalog of iBright™ E28i T8 LED Tube.

628 Zhangyang Road, Suite 1-21B

Shanghai 200122, CHINA

www.atgelectronics.com

E-mail: sales@atgelectronics.com

Phone: +86-21-58350166

Fax: +86-21-58351977

ATG
Electronics Corp.

Light your world
Color your life!