



EcoLight[®]

T8 Series AAE/AEE Model

User's Manual

It is suggested to read this installation manual and follow instructions prior to installation. Incorrect installation and misuse may render the warranty invalid.

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Introduction:

EcoLight[®] T8 Adaptor

The most convenient and smallest energy saving device for FLs.....

It is applied for retrofitting current Fluorescent Lamp with conventional ballasts in result of high energy saving rate.

EcoLight[®] T8 Adaptor is used together with **ECOTUBE**, the three-basic-color fluorescent lamp (dimension: 1450mm/1150mm/850mm/550mm). **EcoLight[®]** is unique that possesses the function of energy saving, protection of vision, quick installation, high efficacy, extended life span, high lighting quality, increase of power factor as well as shorter return period.

EcoLight[®] T8 Adaptor is the best solution for making replacement and upgrading for traditional T8, T9, T10 and T12 Fluorescent Lamp(1500mm/1200mm /900mm/600mm).

The product is brilliant in term of “**Plug-2-Save**” concept. No wiring work and no qualified electricians are required for installation. By fitting **EcoLight[®]** adaptor to one end of the **ECOTUBE**, restoring them to the fixture and then replacing the original starter into **ECO-Starter**, the installation is only completed within 30 seconds.

EcoLight[®] product is an innovation of energy saving device in lighting industries. By utilizing proven PFC and SMT technology, delicate electronic components and well-known technology of electronic ballast, it has been widely applied to retrofit current Fluorescent Tube Lamp (FTL) fixtures with built-in conventional ballasts.

EcoLight[®] T8 Adaptor is designed to protect the environment and people. It is not only to save energy up to 40%, but no need to waste the ordinary fixtures. The new eye protection technology generates a high operation frequency up to 35,000 Hz. Without flickering, it can protect human vision.

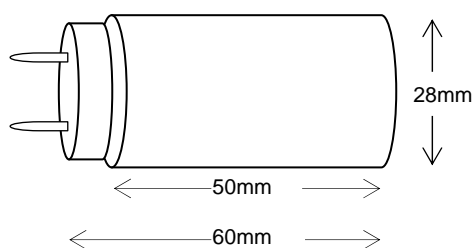
With its dimension in line with the FTLs, **EcoLight[®]** product is installed just like retrofitting a fluorescent tube. This simple installation (**Plug-2-Save**) would definitely result in energy saving up to 40%, and avoid investment on new fixtures.

Product Specifications: AAE & AEE Model

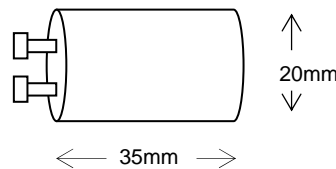
Models	T8/15AAE	T8/30AAE	T8/50AAE	T8/15AEE	T8/30AEE	T8/50AEE
Parameters						
Nominal Voltage	220V±20V 50Hz/60Hz			110V±10V 50Hz/60Hz		
Application voltage	170V – 265V 50Hz/60Hz			170V – 265V 50Hz/60Hz		
Input Power	15W	30W	50W	15W	30W	50W
T8 Lamp Model	ET18W/840	ET36W/840	ET58W/840	ET18W/840	ET36W/840	ET58W/840
ECOTUBE	ET18W/865	ET36W/865	ET58W/865	ET18W/865	ET36W/865	ET58W/865
ECOTUBE Length	550mm	1150mm	1450mm	550mm	1150mm	1450mm
Operation Frequency	> 35kHz					
Power Factor	0.95					
THD	20%					
Starting Method	Pre-heating Start			Instant Start		
Ambient Temperature	– 20 °C ~ +50 °C					
Protection Function	*** Protections			Over-Heat Protection		
Storage Temperature	– 40 °C ~ +60 °C					
Weight	40g					
Relative Humidity	< 95% No condensation allowed					
Cooling	Naturally cooled					
Application	Retrofitting for T8 fluorescent lamp with built-in electromagnetic ballast					

***Short circuit, Open Circuit, Over Load, Over Heat and Gas Discharge protection.

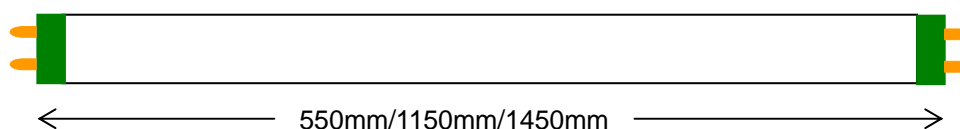
Product Dimension:



EcoLight Dimension



ECO-Starter Dimension



ECOTUBE Dimension

Features:

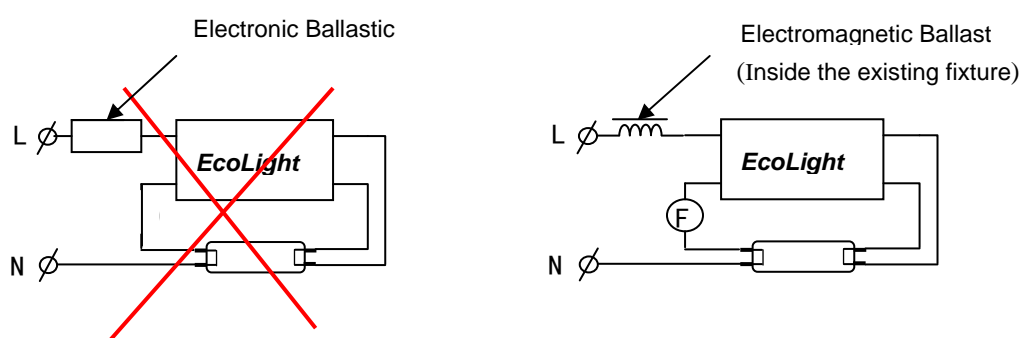
- Energy Saving up to 40%
- Protection functions
- Protection of vision
- Enhance color; No lumen loss
- Lamp's lifetime extended
- No wiring cost; No wiring works
- Short payback period
- User friendly
- Quiet Operation
- Immediate Start; No surge current
- Low Harmonic distortion < 20%
- Operation Frequency > 35KHz
- No flickering
- Reversible retrofitting
- Installation only takes 30 seconds
- Comply with T8, T9, T10 and T12 Fixtures
- Non-Disruptive
- Wide application voltage
- High power factor > 0.95

Notices:

- 1) **EcoLight**[®] adaptor is used together with fluorescent lamp of specific length, 550mm/1150mm/1450mm.
- 2) This product is installed on fluorescent lamp with electromagnetic ballast, but not for electronic ballast. It may cause malfunction or abnormal performance when applying **EcoLight**[®] product in electronic ballast.
- 3) The lifetime will be shortened under high temperature operation. Please be reminded the **EcoLight**[®] system should be fitted in ventilative environment. Suppliers are irresponsible for any defect of the **EcoLight**[®] product caused by exceeding the advised working temperature range from -20°C ~ +50°C.
- 4) Please do not remove fluorescent lamp if the power is on.
- 5) Please contact us if there is any question.

Prior to Installation:

1. Remove the **EcoLight**[®] adaptor, **ECO-Starter** and **ECOTUBE** carefully from the packaging and check that the products supplied identify with the delivery note and the purchase order; Check that the products supplied identify with the existing fluorescent lamp and fixtures.
2. Check the **Voltage** ratings of the products correspond with the existing fluorescent lamp
3. Check that there are no loose parts.
4. Make sure there is no **power factor correction capacitor** inside the fixture. If it does, remove the capacitor before installation.
5. Make sure the exiting fixture carrying **ELECTROMAGNETIC BALLAST**, but NOT electronic ballast

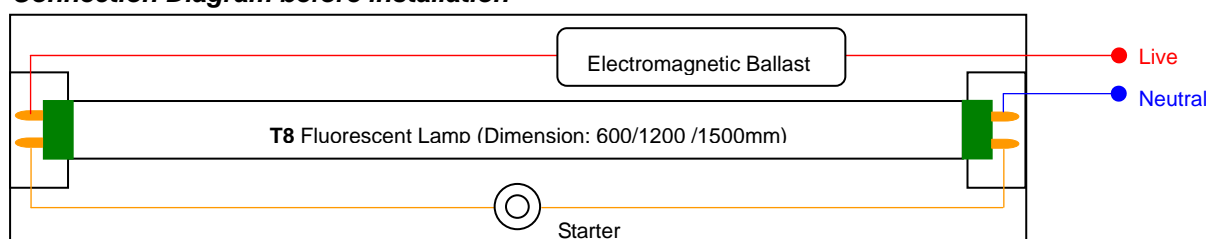


Installation:

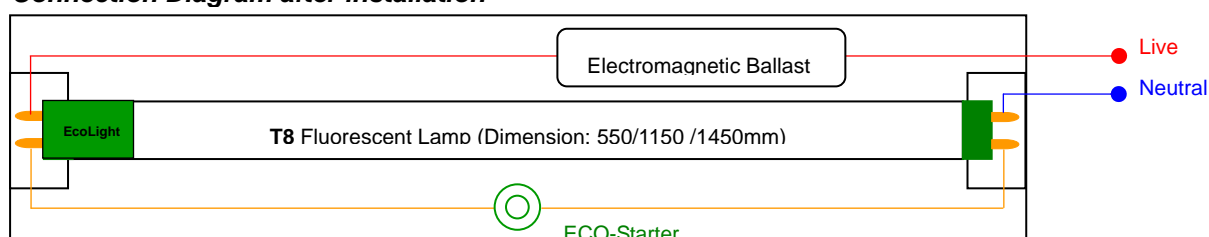
- 1) Make sure the power supply of existing fluorescent lamp is completely turned off before conducting installation.
- 2) Un-plug the existing lamp.
- 3) Plug **Adaptor** in either end of **ECOTUBE** and reload to the fixture.
- 4) Replace the current starter by **ECO-Starter**.
- 5) Ensure **Adaptor** and **ECOTUBE** are fitted firmly.
- 6) Turn on the power and the installation is completed.



Connection Diagram before installation



Connection Diagram after installation



Important Notices:

- 1) To ensure safety, main power should turn off during installation.
- 2) No wiring work is required during installation
- 3) The installation complies with the information contained in this publication.

EcoPower Electric Limited, or their agents do not assume any liability, expressed or implied, for any consequences resulting from inappropriate, negligent or incorrect installation, application, use or adjustment of the product or circuit design, or from the mismatch of the unit to a lamp.