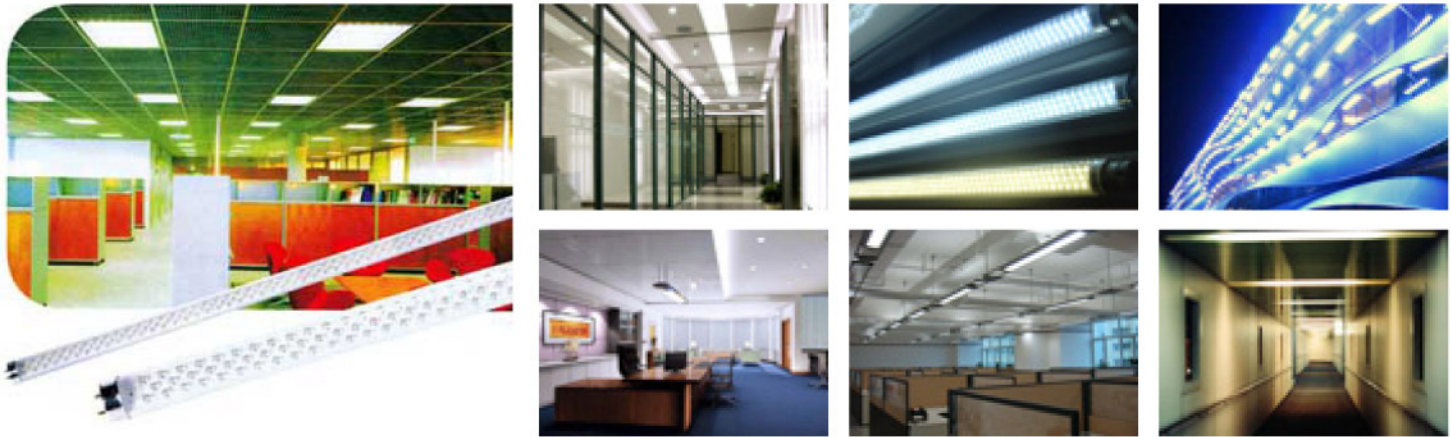


LED FLUORESCENT TUBE

MODEL NO: JOY-L-T8-LV



According to the feature of the LED semiconductor's lighting, we adopt LED light source technology with special wire circuit design, which save energy more than 80%. It achieves the purpose of super energy saving and high efficient. Super brightness high color index. It is the new style of the indoor illuminated product, without ballast and on frequent flash. It can be used over 50,000 hours.

Features:

- * Constructed from high quality super brightness LED
- * Automotive Quality Manufacturing Standard
- * Available in cold white or warm white
- * Suitable for most indoor lighting applications such as in domestic premises, hotel, office compounds, car parks, warehouses, factories, super markets, passageway and corridor illuminations.

Advantages:

- * Energy saving: Min. 60% less electricity consumption compared with conventional fluorescent light.
- * Environmental friendly: LED tube light does not produce ultraviolet radiation and infrared ray. It contains no mercury, therefore do not generate pollution/hazard when recycling.
- * Long life span: Over 50,000 hours of service life under normal usage.
- * Flicker-free & fast start: Constant current drive, no a.c. frequency flashing, reduces eyes fatigue. Instant on/instant off (shutter-less).
- * Simple installation: no ballast and starter required, fit to existing fluorescent tube holders.
- * No UV emission: Many insects use the ultraviolet wavelength emissions from for flight navigation. With no UV emission, it doesn't attract insects. Moreover, with no UV, it solve the eyes tiredness due to UV emission.

ECO LOW ENERGY LIGHTING SOLUTIONS

JOY STRONG LED Sdn. Bhd.

(A wholly-owned subsidiary of JOY GROUP)

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COMPARISON

	Conventional Fluorescent Lamp	LED Fluorescent Lamp
Power Consumption	48W	18W
Yearly Consumption (30days/mth, 12hrs/day, avg RM0.348/kWH)	RM72.16	RM27.06
Indicative Price	RM8.00	RM190.00
Yearly Maintenance Fee	RM45.00	-
Yearly Cost	RM117.16	RM27.06
Yearly Saving	-	77%
Return To Investment	-	2 years



SPECIFICATIONS

Input Voltage
Power Consumption
No of LED
Power Consumption per LED
LED Luminous Efficiency
Flux
Efficiency (%)
Illumination (E)
Effective Illuminated Area
Color Temperature
Beam Angle
Color
Index (CRI)
Working Humidity
Storage Temperature
Lifetime
Net Weight
Application
Casing Construction
Dimensions
IP Rating

	White	Warm White
Input Voltage	240 V AC	
Power Consumption	typ 18W	
No of LED	252	
Power Consumption per LED	typ 83 lm/watt	typ 77 lm/watt
LED Luminous Efficiency	~1500lm	~1400 lm
Flux	>85%	
Efficiency (%)	1m ~400 lux	~350 lux
Illumination (E)	1m 3.5m x 4.7m	3.5m x 4.7m
Effective Illuminated Area	4,500K ~ 6,500K	2,280L ~ 3,800K
Color Temperature	120°	
Beam Angle	>75	
Color	-20°C ~ 40°C	
Index (CRI)	10% ~ 90% RH	
Working Humidity	10°C ~ 85°C	
Storage Temperature	50,000 hours	
Lifetime	~500g	
Net Weight	Indoor Usage	
Application	Front Polycarbonate	
Casing Construction	Back Aluminum	
Dimensions	Length 1200mm	
IP Rating	Radius 30mm	
	IP 53	



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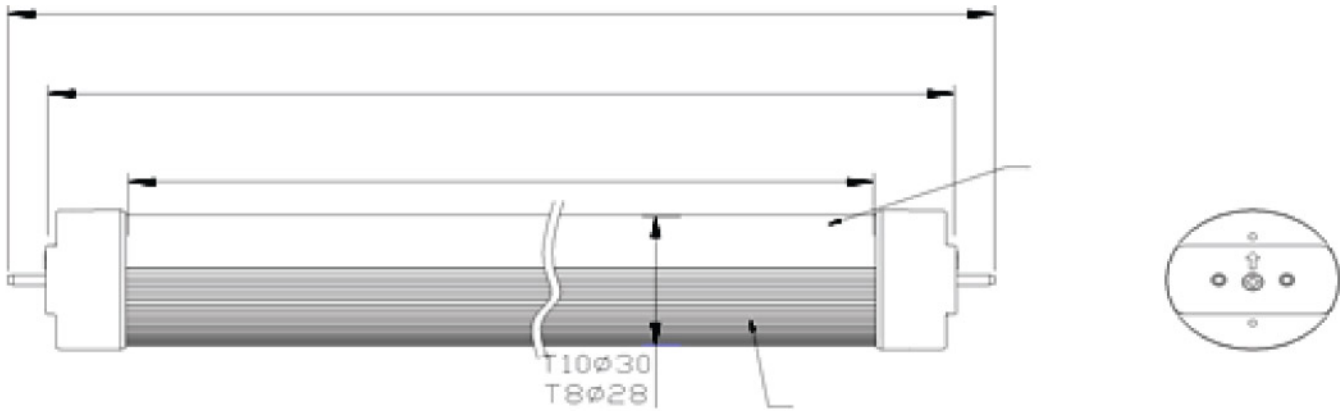
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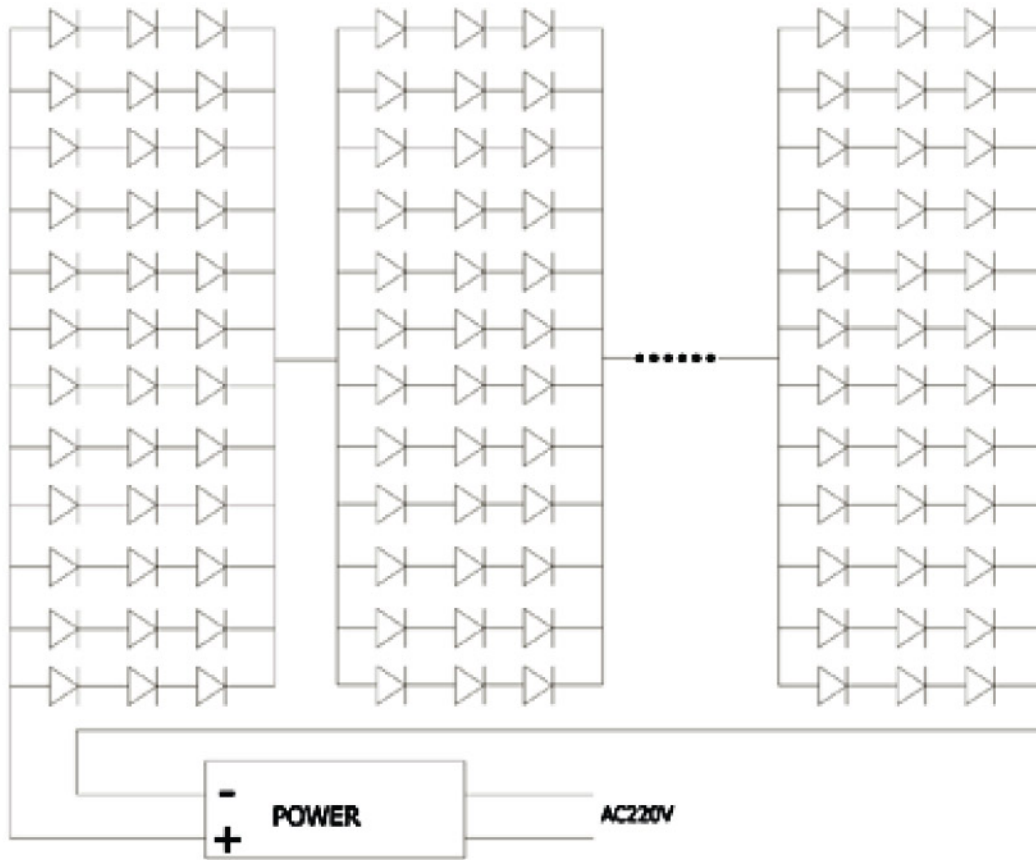


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Basic Construction Diagram



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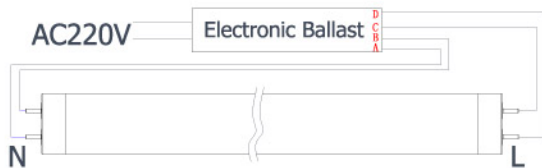


Installation Instruction

Replacing a traditional fluorescent tube installed with electronic ballast which does not have a Starter.

1. Switch off power before installation.
2. From the existing Electronic Ballast, remove wires A and B and join together as N wire; remove wires C and D and join together as L wire (see connection diagram of existing fluorescent tube).
3. Connect the L wires and the N wires to 220VAC mains respectively and join them to the pin sockets of the lamp batten (see connection diagram of a LED tube light).
4. The Electronic ballast may be left in the lamp batten.

Connection diagram of existing fluorescent tube



Connection diagram of a LED tube light

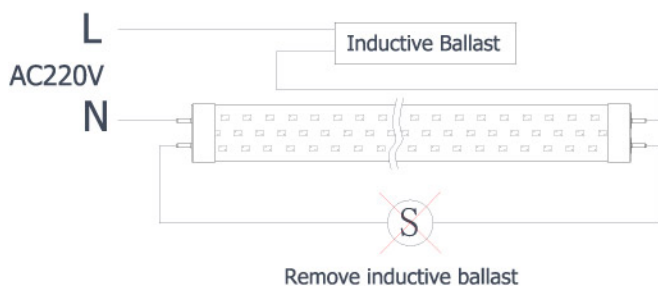


Replacement inductance LED tube light installation instruction

A) Directly Replacement Way :

1. Switch off power before installation.
2. Remove the starter.
3. Please take down the traditional LED tube light to replace the LED tube light. (Showed as right picture. The installation way is extremely simple. We don't need the electrician to make change for traditional circuitry.)

Connection diagram of a LED tube light



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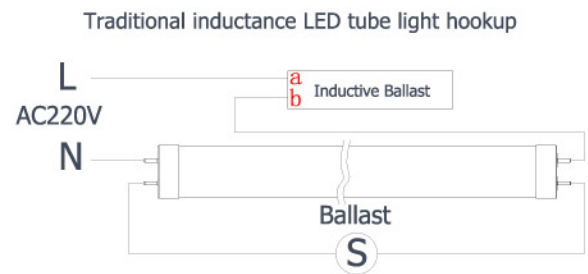
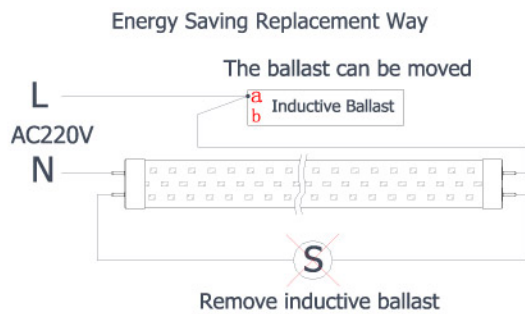
LED FLUORESCENT TUBE

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B) Energy Saving Replacement Way (Save energy compare with way A about 10VA) showed as below picture) :

1. Switch off power before installation.
2. Remove the starter. (The Inductive ballast can be moved)
3. The Inductive ballast connect with Power A and Power B. After remove the both sides and then connected with.



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