

LED Tube

The future of lighting

Outline

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2. Comparison : Conventional Vs LED Tube
3. Cost Comparison : Conventional Vs LED Tube
4. DD-Tech's Fluorescent Tube Product Feature

Benefit of LED Fluorescent Tube

1. Environmental friendly
 - Traditional fluorescent lamp contains large amount of mercury vapor which will do harm to the environment if the lamp is broken up and the vapor volatilize into the atmosphere. On the contrary, LED fluorescent lamp does not contain mercury or lead.
2. Low heat
 - Compared to traditional lamps which will generate a large amount of heat, LED lamps can directly make electric energy into light energy, causing less heat and no waste of the energy
3. Noise-free
 - LED lamp will not produce any noise, enabling it to be a good choice for illumination application in high precision electrical instrument.

Benefit of LED Fluorescent Tube

4. Soft light beams and stroboflash-free
 - Traditional fluorescent lamp uses alternating current, which will generate 100-120 times of stroboflash per second. As to LED fluorescent lamp, it can directly switch the alternating current into direct current, without causing any flickering, helpful to protect the eyes
5. Free of ultraviolet radiation
 - Traditional lamps will generate ultraviolet radiation, thus will attract mosquitoes to fly around the lamps. LED lamp doesn't have this disadvantage
6. Wide-range of adjustable voltage
 - Traditional fluorescent lamp should recur to rectifier to release high voltage to get brighten up. If the voltage fell, the lamp will went out. However, LED lamps can be lighted within a certain voltage range (80V-245V)

Benefit of LED Fluorescent Tube

7. Energy-saving, long life-span and low cost
 - Traditional fluorescent lamp uses alternating current, which will generate 100-120 times of stroboflash per second. As to LED fluorescent lamp, it can directly switch the alternating current into direct current, without causing any flickering, helpful to protect the eyes
8. Rigid and safe
 - LED lamp body is made by epoxy resin instead of glasses like other traditional lamps. So it is more rigid and safe. Even if falling to the floor, LED lamp will not be broken easily. Users can set their heart at rest when using LED lamps

Comparison : Conventional Vs LED Tube

	LED Tubes	Fluorescent Tubes
Lifespan	Tubes last twice as long as the average fluorescent tube	Last 10 to 20 times longer than incandescent bulbs, but not as long as LED bulbs.
Cost	Very expensive. Tubes can range from \$50 to \$100.	Inexpensive. Tubes cost \$2 to \$10
Heat output	These bulbs do not cause heat build-up	Temperature can be up to 2 degrees warmer under fluorescent tubes
Efficiency	More efficient than both fluorescent and incandescent tubes	Four to six times more efficient than incandescent bulbs, but less efficient than LED tubes. They also
Comfort	More ergonomic than fluorescent tubes	Not ergonomic: light is drab and all bulbs flicker (though not always visible to the human eye).
Material	Does not contain hazardous metals like mercury	Does contain mercury and phosphor
Other	Light is not as strong as fluorescent or incandescent bulb	Bulb life is reduced in situations where light is switched on and off frequently

Cost Comparison : Conventional Vs LED Tube

Conventional Lighting

- Power = 36watts
- Power for 1 day = 432.00 watt hrs
- Power for 1 year = 152 kWh
- Ballast Power = 18watts
- Ballast Power for 1 day = 216 watt hrs
- Ballast Power for 1 year = 76kWh.
- Total power for 1 year = 228 kWh.
- Total power for 10 years = 2280 kWh.

LED Tube replacements

- Power = 15 watts.
- Power for 1 day = 180 watt hrs.
- No ballast required.
- Total Power for 1 year = 65.52 kWh.
- Total Power for 10 years = 655.20kWh

70% power saving

DD-Tech's Fluorescent Tube Product Feature



General Information

- Using 0.06W high luminance SMD LED to insure the high lumen output
- Can be refurbished in the existing fluorescent fixture
- High efficient with lower power consumption and minimum maintenance cost

DD-Tech's Fluorescent Tube Product Feature



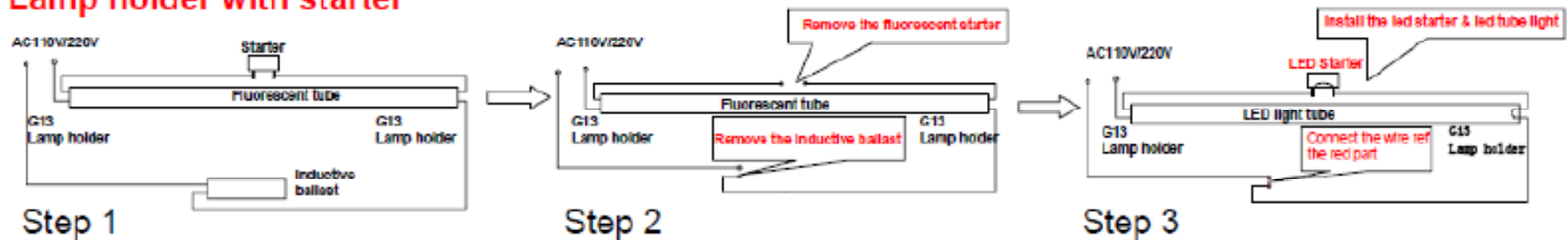
Special Points & Features

- Own designed isolating LED driver (DC voltage)
- Own design AL housing & end cap
- Full plastic rotatable end cap with clip (Patent Design)
- Holes on PCB for better heat dissipation (Patent Design)
- LED starter work together with LED tube (Patent Design)
- Safety working voltage from DC36V~DC40V
- Pass 4000V high voltage testing by TUV&UL
- TUV / ETL /CE /Rohs approval

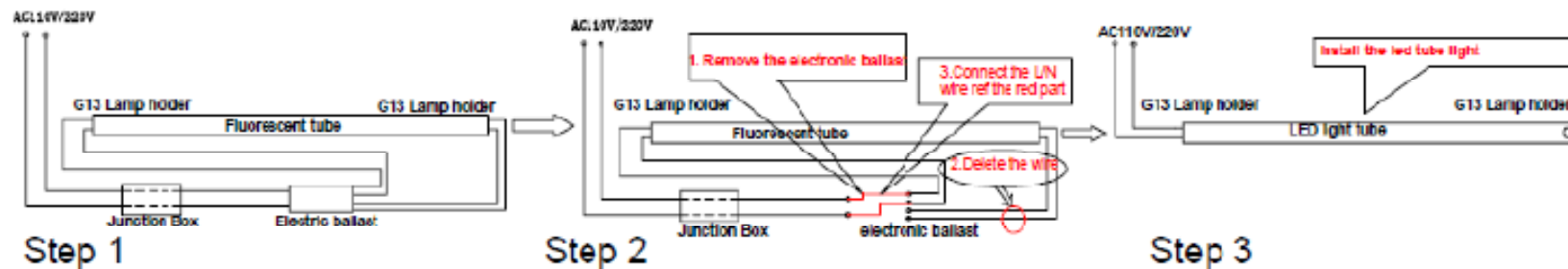
DD-Tech's Fluorescent Tube Product Feature

Fixture Modification for LED T8 Tube

Lamp holder with starter



Lamp holder with electronic ballast



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