



Haining Foxsun Lighting CO.,Ltd

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LED Light Information

LED stands for light-emitting diode. Light Emitting Diode (LED) bulbs are more durable, energy efficient, and longer lasting than standard or even fluorescent light bulbs. LED Lights generate very little heat, which means LED Lights are 90% energy efficient. LED Lights last greater than 60,000 hours. LED lighting last up to ten years or longer! The standard incandescent light bulb last 1,500 hours. What is an LED? A special chip that makes light when electricity is supplied to it. LED chips use a low voltage and need a steady current of electricity in order to work properly.

LED Light uses solid state lighting "SSL". The LED Bulb, LED Lamp, and other LED Lights are self ballasted using LED energy saving green technology which is environmentally friendly and energy efficient:

- ❖ LED lights don't put out harmful UV rays for the environment.
- ❖ LED lights emit the intended color without using a filter to do so.
- ❖ LED Lighting is also lead free.
- ❖ LED Lighting has no filament that can break resulting the purchase of a new light bulb.
- ❖ The LED Light can be used with a dimmer switch which may cause them to glow or flicker when off because of how energy efficient the LED Lights are. LED lights save money in other ways as well since they don't take much energy they help with the air conditioner power and other energy using products.

LED Light Bulb is available in multiple colors for LED decor lighting effects. The LED lighting colors are White, Warm White, Cool White, Red, Green, Blue, Yellow, Amber, Violet and Ultraviolet (Black light) and gradual color changing RGB (Red, Green, Blue) LEDs or color changing. The LED light different colors are also just as energy efficient as the standard white colors. LED lighting give out vivid, pure, and bright light spectrum. The LED white lights work easier on your eyes and are closer to the color of daylight.

The LED Light bulb can be used indoors or outdoors such as LED landscape lighting, LED driveway lighting, LED sidewalk lighting and LED garden lighting. Outdoor LED bulbs and LED Lamps include 7 Watt LED bulb, or the 3 Watt LED bulb, LED Globe, LED Candle, LED Flame tip, LED bulbs and LED Lamps.

LED Lights are cool to the touch, unlike hot halogen light bulbs. LED lights withstand



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constant switching and varying weather change. LED lights are also waterproof and can handle other weather such as cold and heat.

LEDs don't generate any RF wavelengths that cause radio interference, or UV (ultraviolet light), unless specified as a UV diode, or IR (infrared), which in turn doesn't attract any insects or bugs.

The LED has multiple voltage configurations 120VAC, 220VAC some LED Lights can operate both 120VAC and 220VAC. AC LED Light bulbs require less maintenance, which reduces labor costs.

Frequently Asked Questions

Q: What are LEDs?

A: LEDs are Light-Emitting Diodes.

Q: Do we carry a catalog?

A: Yes, we carry both a indoor-light Catalog and outdoor-light Catalog.

Q: Do LED lights screw into standard household light sockets?

A: Yes, LED lights are direct screw in replacements for household lights. You unscrew your incandescent light bulb and screw in your LED Light bulb. You do not need to redo your electrical system to use the LED lights.

Q: Is there a minimum purchase to try LED Lights within the United States.

A: No there is no minimum purchase.

Q: Do LED lights have a warranty?

A: Yes, the LED lights are warranted for a period of two year, but they can last a lifetime!

Q: Where do we ship to?

A: We shipped to worldwide.

Q: Can LED lights be used in the outdoor weather such as rain, snow, cold, heat?

A: Yes, the LED lights can be used outside all season. The LED light bulbs are CE and/or UL listed for indoor and outdoor use.

The primary benefit of PowerLine LED technology is the tremendous cost savings for the user by eliminating replacement costs, lowering power consumption, and reducing operating temperatures.

- [Long Life](#)
- [Cooler Operating Temperatures](#)
- [LED Power Consumption](#)



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- [Cold Filament Inrush](#)
- [Shunt Resistor](#)
- [Cost Savings](#)

	FOX SUN LED Lamp	Incandescent Bulb
Average Life	100,000 hours	2,000 hours
Failure Mode	Predictable	Unpredictable
Lifetime affected by on/off operation	No	Yes
Resistant to shock and vibration	Yes	No
Operating temperature	Low	High
Power consumption	Low	High
Susceptible to cold filament inrush current	No	Yes

LED Driver Overview

With higher efficiencies than incandescent bulbs and without the hazardous chemicals found in Cold Cathode Fluorescent Lamps (CCFL), LED lighting is gaining popularity as an environmentally friendly lighting solution.

Regardless of type, size, or power, all LEDs work driven with a constant current source LED driver supply since LED color changes with small variations in driving current. LEDs often support varying system voltages and forward voltages, which can further cause variations in LED brightness and color. National's LED drivers provide the benefit of constant current source to single LEDs or arrays of LEDs, enabling color and brightness matching over a wide temperature range.

National's LED drivers are ideal for both parallel and series configurations with features such as built-in current matching, high efficiencies, multiple dimming interfaces, and low total component count.