

LTHS4 – High Power LED Streetlight



Features / Benefits

- ▼ **Low Power Consumption** -112W
- ▼ **High Brightness** - Up to **8,400 Lumens**, **LASTS UPTO 8 TIMES LONGER** than the traditional lamps
- ▼ **Long Life** - Up to 50,000 Hours, The PWM constant current module protects the LEDs efficiently.
- ▼ **Robust Design** - Shock and vibration resistant
- ▼ **Light Beam** - Low heat generated/No UV, adopted the integrative lamp cup & radiator, scatter heat quickly
- ▼ **Easy Installation** – With the adjustable hoop, which can easy to install on any kind of lamp pole
- ▼ **Save Money** - Reduces labor and maintenance costs
- ▼ **High Efficiency** – Power Factor>90%, THD<9. "Full Cutoff"

Specifications:

1	Revolutionary Photometric Design- The world's first dedicated optical system (rectangular faceted beam focusing lens): Offers excellent control of the light distribution, spot rectangular beam pattern, ensures an ideal uniformity of brightness on the road surface, eliminates the glare and keeps the LED lighting efficiency on a high level, no light pollution. Considered a "Full Cutoff" fixture.
2	Unique Integrated Lens: Faceted Lens plays a protective and directed spot lighting role, reduces the loss of light, also reduces the weight of the product which enables a greatly simplified structure, which helps to keep the product stable over its lifetime.
3	Creative Design of the Radiator and Lamp Holder Integration: Fully protects LED life and it heat dissipation requirements through it's sleek and well designed radiator made of billeted aluminum.
4	Unique Thermal slide-shell design, assembled with simple and convenient combination: Slide lights with composite shells, the installation forms dynamic, simple and convenient combination lamps. Easy for dismantle and maintenance, save cost and the job has become very easy.
5	With thin and slim appearance, reduces the wind force effects and weight, decreases the lamp pole load, enhances the safety factor.
6	Intelligent current control, uses precision constant current: Each LED module can implement intelligent current control, whenever network power fluctuations occur it is able to maintain a precision constant current to ensure the continuous operation of the LED's.
7	No Adverse Glare: Eliminates the glare caused by the ordinary HPS lights glare and visual fatigue and related sight interference, improves driving safety, reduces the incidence of traffic accidents, fully embodies the spirit of "People-oriented Technology" in this product.
8	No light Pollution: Light distribution is strictly controlled and no light travels out of the intended illumination area. "Full Cutoff" of light above 0 degrees.

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9	No High-voltage, No Dust Adsorption: Eliminates High Voltage, self -cleaning of dust which can cause the lenses become dark and reduce it's brightness.
10	No High-temperature, No Aging Yellow Lens: Eliminates the high temperature baking which causes the traditional lenses to turn yellow with age and leads to a shortened life expectancy and gradual decreases in the apparent brightness;
11	Wide Working Voltage: For the traditional light source such as the High Pressure Sodium, if the voltage fluctuation $\pm 7\%$, the brightness and lifetime will be reduced very fast, but for LTHS LED, even the voltage fluctuation is $\pm 20\%$, the brightness and lifetime will not be influenced at all;
12	Starts Without Delay: Reaches the normal brightness instantly with no delay when switched on, eliminates long startup time of the traditional HPS street lights.
13	No Strobe Flashing: Eliminate the visual fatigue which caused by the strobe effect of the traditional tunnel lamps;
14	Impact Resistance, Shock-proof, Without Ultraviolet (UV) and Infrared (IR) Radiation: No filaments or glass lenses, avoids breakages associated of the traditional lamp. Less danger for maintenance wokers.
15	High Color Index, Nice Coloration: To show the true colors and brighter, good identifiably;
16	Multiple Color Temperature Options: Color temperature to meet the needs of different occasions, eliminated the low color temperature of the sodium lamp which causes a depressed mood, observers will feel more comfortable;
17	Tremendous Energy Saving: Used the ultra high power, high brightness LED light source ,together with the high power efficiency power supply, which can save energy 50%-80% than the conventional sodium and mercury lamps;
18	Long Life, Up to 50,000 Hours: (Working for 10 hours a day, can be used for more than 13 years), This is 5-10 times the working life over traditional HPS (High Pressure Sodium) or mercury vapor lamp.
19	Green and Environmental Protection: no lead, no mercury, no environmental pollution;
20	Universal Input Voltage-85-264vAC full voltage range constant, constant-current PWM technology, high efficiency, low-heat, high-precision constant current;
21	No Pollution to Power Network: Power factor ≥ 0.9 , THD $\leq 20\%$, EMI apply with the global universal index, reduce the power loss and transmission lines to avoid contamination of the network of high frequency interference;
22	Work under Low-voltage and Low-Heat, Safe and Reliable: LED junction temperature can be controlled under an ideal temperature (TJ $< 60^{\circ}\text{C}$ Ta=25 $^{\circ}\text{C}$ ambient temperature);
23	Perfect Combination With solar Energy: Fully exert the advantage of the LED work under low voltage and environment work, according to the local solar energy resources, electricity and solar power can also be combined .To achieve the best cost performance and high reliability customers;
24	High Luminous Efficiency: LED luminous efficiency of the existing condition is $\geq 80\text{lm/w}$, with the rapid increase LED brightness, lighting power will be further reducing, and saving energy efficiency will show obviously, when the luminous efficiency reach 150lm/w, the 400W high pressure sodium lamp will be Replace by the 80w LED Streetlight. And we believe the LED luminous efficiency will reach 300lm/w at last, then it will have a tremendous energy saving result.
25	Have a number of patents for inventions and utility model patents.

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Technical Parameters

Model Number	LTHS4
Input Voltage	85-264VAC
Frequency Range	47~63Hz
Power Factor(PF)	>0.9
Total Harmonic Distortion (THD)	<20%
Power Efficiency	85%
Working Voltage	24VDC
LED Consumption	112W
Power Supply Consumption	20W
LED Luminous Efficiency	≥80lm/w
LED Initial Flux	10,000lm (Tj=25℃)
LED Maintain Flux	9,300lm(Tj=60℃,Ta=25℃)
Lamp's Flux	8,400lm(Tj=60℃,Ta=25℃)
Lamp's Efficiency (%)	>90%
Illumination (E)	(Height=6m)≥53 Lux (Replace Sodium light of 132 Lux X) (Height=8m) ≥30 Lux (Replace Sodium light of 75 Lux) (Height=10m) ≥18 Lux (Replace sodium light of 45 Lux) (Height=12m) ≥13 Lux (Replace sodium light of 33 Lux)
Effective Illuminated Area	(Height=6m): 20 x 8m (Height=8m):26 x 10m (Height=10m):33 x 13m (Height=12m):40 x 16m
Color Temperature	Pure White: 5,000~7,000K; Warm White :3,000~4,000K
Color Index(CRI)	Ra>75

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Light Source	LTHS Emitter (1Watt)
Light Distribution Curve/Beam Pattern	Asymmetric (Bat Wing)/ Rectangular Beam
The Highest Light Intensity Angle	120°:The Horizontal Axis:110°, The Vertical Axis:45°; 140°:The Horizontal Axis:130, The Vertical Axis:45°
Beam Angle	120°:The Horizontal Axis:110°, The Vertical Axis:45°; 140°:The Horizontal Axis:130, °The Vertical Axis:45°
Junction Temperature(Tj)	60 °C ±10 % (Ta=25°C)
System Resistance (Rja)	0.28°C/W
Working Temperature	-30 ~ 50
Working Humidity	10%~90%
Storage Temperature	10 ~85
Working Life	50,000 Hrs
Light Body& Lampshade	Aluminum Alloy and PC
The Dimensions(Units: mm)	715(L) x 315(W) x 90(H)
Net Weight	10 Kgs
IP Rating	IP67
Packing	1 pc /Carton
Carton Size	790 x 400 x 205 mm
Container Q'ty (pcs)	20'Q: 385 pcs 40'Q: 792 pcs, 40'HQ: 936 pcs
Warranty	12 Months

Design For: New insallations or to replace traditional HPS or other types of energy wastefull incandescent lighting.



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Installation Lighting Effects Examples



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