Integrated High Power LED Streetlight


LU6- Intergrated high power streetlight

1) Revolutionary Photometric Design -
The world's first dedicated optical system (rectangular beam focusing lens). Reasonable control of the light distribution, spot rectangular bean pattern, and ensure an ideal uniformity of brightness on the road surface;
2) Unique Integrated Lens and Lampshade Design -
Array Lens play a protective and spot light role, avoid wasteful duplication of light and reduce the loss of light, also reduce the weight of the product and enable simplified structure;
3) Creative Design of the Radiator and Lampholder Integration -
Fully protect LED life and heat dissipation requirements, satisfied with the structure and design of LED Lights fundamentally, with the most distinctive features of LED Lights(see attached picture);
4) The Unique and Innovative Design of Modular Integration -
Can be arbitrarily combined to different power consumption and demand products. Each module is an independent light source also fungible, the partial failure does not affect the normal operation of the whole lamp, easy for take down and maintenance, save cost and the job has become very easy;
5) Light and Thin Exterior -
Effectively reduce the weight and air resistance, reduce the load of lamp pole, enhance safety factor;
6) Intelligent Current Control -
Each LED module can implement intelligent current control, whatever any deviant situation, it is able to achieve the precision constant current, ensure the LED can work under the secure current.
7) No Adverse Glare -
Eliminate the glare caused by the adverse ordinary lights glare and visual fatigue sight interference, improve driving safety, reduce the incidence of traffic accidents, fully embodies the spirit of "People-oriented Technology" in this product;
8) No Light Pollution -
Light Distribution designed for road lighting, in addition to illuminate the path and will not illuminate the road outside the region. Eliminate the interference signal by the residents of the light into the rest room;


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9) No High-voltage, No Dust Adsorption -
Eliminate the high-voltage adsorb the dust cause the lampshade become dark, reduce the brightness;
10) No High-temperature, No Aging Yellow Lampshade -
Eliminate baking the traditional lampshade which cause aging yellow, shortened life expectancy and decrease the brightness;
11) Start Without Delay -
Reach the normal brightness and do not have to wait when switch on, eliminate a long process of starting of the traditional street lights;
12) No Strobe -
Eliminate the visual fatigue which caused by the strobe lights of the traditional street lamps;
13) Impact Resistance, Shock-proof, Without Ultraviolet (UV) and Infrared (IR) Radiation -
No filament and glass frames, avoid break of the traditional lamp, without harm to the human body;
14) High Color Index, Nice Coloration -
To show the true colors and more brighter;
15) Multiple Color Temperature Options -
Color temperature to meet the needs of different occasions, eliminated the low color temperature of the sodium lamp which cause the hypnotic mood and high color temperature of the mercury lamp which cause the depressed mood, observers will feel more comfortable;
16) 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;


LU2- Intergrated high power streetlight

17) Long Life, Up To 50,000 Hours -
(Working for 10 hours a day, can be used for more than 13 years), is 5-10 times working life than a traditional sodium or mercury lamp;

18) Green and Environmental Protection -
no lead, no mercury, no environmental pollution;

19) Universal Input Voltage -
85-264VAC full voltage range constant, constant-current PWM technology, high efficiency, low-heat, high-precision constant current;

20) No Pollution to Power Network -
Power factor=0.9 , THD=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;

21) Work Under Low-voltage and Low-Heat, Safe and Reliable -
LED junction temperature can be controlled under an ideal temperature (TJ<60 ? Ta=25 ° C ambient temperature);

22) Perfect Combination With Solar Energy -
Fully exert the advantage of the LED work under low voltage and environmental 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

23) High Luminous Efficiency -
LED luminous efficiency of the existing conditions is = 65lm/w, with the rapid increase LED brightness, when the luminous efficiency reach 150lm/w, the 400W sodium lamp will be replace by the 100W LED lamp,

Integrated High Power LED Street Lamp Main Technical Parameters

Model Item	LU2	LU4	LU6
Input Voltage	AC 85 ~ 264 V		
Frequency Range	47 ~ 63 Hz		
Power Factor(PF）	＞0.9		
Total Harmonic Distortion（THD）	＜20%		
Power Factor	83 %		
Working Voltage	24V DC		
LED Consumption	56 W	112 W	168W
System Consumption	75 W	150 W	225 W
LED Luminous Efficiency	≥65 lm/w		
LED Initial Flux	4,300 lm (Tj=25℃)	8,600 lm (Tj=25℃)	12,900 lm (Tj=25℃)
LED Maintain Flux	4,000 lm (Tj=60℃,Ta=25℃)	8,000 lm (Tj=60℃,Ta=25℃)	12,000 lm (Tj=60℃,Ta=25℃)
Lamp's Flux	3,600 lm (Tj=60℃,Ta=25℃)	7,200 lm (Tj=60℃,Ta=25℃)	10,800 lm (Tj=60℃,Ta=25℃)
Lamp's Efficiency (%)	>90 %		
Illumination (E)	≥26 lux (Height=6 m) ≥15 lux (Height=8 m) ≥9 lux (Height=10 m) ≥6 lux (Height=12 m)	≥53 lux (Height=6 m) ≥30 lux (Height=8 m) ≥18 lux (Height=10 m) ≥13 lux (Height=12 m)	≥80 lux (Height=6 m) ≥45 lux (Height=8 m) ≥28 lux (Height=10 m) ≥20 lux (Height=12 m)
Effective Illuminated Area	20×8 m (Height=6 m) 26×10 m (Height=8 m) 33×13 m (Height=10 m) 40×16 m (Height=12 m)	20×8 m (Height=6 m) 26×10 m (Height=8 m) 33×13 m (Height=10 m) 40×16 m (Height=12 m)	20×8 m (Height=6 m) 26×10 m (Height=8 m) 33×13 m (Height=10 m) 40×16 m (Height=12 m)

Color Temperature	Pure White: 5000 ~ 7000 K，White White:3000～4000K		
Color Index(CRI)	＞75		
Light Source	BBE Emitter (1 Watt)		
Light Distribution Curve / Beam Pattern	Asymmetric (Bat Wing) / Rectangular Beam		
The Highest Light Intensity Angle	The Horizontal Axis：110°，The Vertical Axis ：45°		
Beam Angle	The Horizontal Axis：120°，The Vertical Axis ：60°		
Junction Temperature (Tj)	60 ° C ± 1 0% (Ta= 25 ° C)		
System Resistance (Rja)	0.56 ° C / W	0.28 ° C / W	0.19 ° C / W
Working Temperature	- 30 ° C ~ 40 ° C		
Working Humidity	10 % ~ 90 % RH		
Storage Temperature	10 ° C ~ 85 ° C		
Working Life	> 50,000 Hrs		
Light Body & Lampshade Material	Aluminum Alloy and PC		
The Dimensions(Units : mm)	540 (L) X 315 (W) X 90 (H)	715 (L) X 315 (W) X 90 H)	890 (L) X 315 (W) X 90 (H)
Net Weight	7 kg	10 kg	13 kg
IP Rating	IP 65		