

LED Street introduction

Integrated High Power LED Street

Lamp Functions and Features

- **Unique Integrated Lens and Lampshade Design** - Array Lens plays 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
- **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
- **Light and Thin Exterior** - Effectively reduce the weight and air resistance, reduce the load of lamp pole, enhance safety factor
- **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
- **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
- **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
- **No High-voltage, No Dust Absorption** - Eliminate the high-voltage absorb the dust cause the lampshade become dark, reduce the brightness
- **No High-temperature, No Aging Yellow Lampshade** - Eliminate baking the traditional lampshade which cause aging yellow, shortened life expectancy and decrease the brightness
- **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
- **No Strobe** - Eliminate the visual fatigue which caused by the strobe lights of the traditional street lamps
- **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
- **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
- **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
- **Green and Environmental Protection** - no lead, no mercury, no environmental pollution
- **Universal Input Voltage** - 85-264VAC full voltage range constant, constant-current PWM technology, high efficiency, low-heat, high-precision constant current
- **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
- **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)

**Comparison Led lamp vs Sodium
Economic benefit**

The electricity fee which can be saved in $\pm 50,000$ hours	Power (W)	250
	The entire lamp system test current (A)	3.05
	The entire lamp system actual power (W)	671
	The entire lamp system actual consumption (kW/h)	33.550
	Energy saving (kW/h)	--
The cables purchase spending which can be saved for each lamp (1,000 lamp)	Saving electricity fee (€, 0.7 €/kW/h)	--
	The lines total current	3.050
	Cable acquisition cost saving	54.600
The maintenance expenditure savings for each lamp in $\pm 50,000$ hours	Save money	--
	Replace 10 pcs lamp (€, € 50/pc)	500
	Replace 1 pc transformer (€, €200/pc)	200
	Machinery & labor cost (€)	200
Total	Save money (€)	--
	Cost-saving for each lamp in $\pm 50,000$ hours (€)	--

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

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, the luminous efficiency will reach 300lm/w eventually

Have a number of patents for inventions and utility model patents