

The lightweight, compact and reliable integral LED street light is made by integrating the LED lamps and the case into one piece.

AODDevices' proprietary photometric design patented curved arrangement of LED lamps assures precise control of the light distribution, ideal brightness uniformity on road surface, and high luminaire efficiency, while eliminates optical glares and pollutions.

The key parts constituting the LED street lights are formed by world-class white power LED lamps with efficacy over 90lm/W and lifetime over 50,000hrs. All eutectic bonding assures perfect LED thermal management from chip to external heat sinking mechanisms.

Unique electronic driver design provides several flexible control functions such as timer control, photo sensor control, acoustic sensor control and even internet control.



## Special Features

- Over 50,000Hr Mean Time Between Failures ( depends on environment )
- IP66 Protection
- High luminaire efficiency over 88%
- Superior color rendering index up to 80 , near daylight quality
- Wide color of temperature range available
- Power efficiency over 90% , Power factor up to 0.98 , THD less than 10%
- Isolated low-voltage driver mode leading to high safety and reliability
- No light pollution ,no IR, no UV
- Anti-vibration and shock-proof
- Green and environment-friendly: lead-free, no-mercury, no fragile glass, no environment-harmful materials
- Tremendous energy saving: more than 75% electricity saving over conventional sodium light

## Applications

main street/road, highway, tunnel, square and parking lot illuminating

**The S-Series LED Street Light**

Part Number	Light Power	Voltage Supply	Frequency
AL-S02	20W	AC 110/220V	50/60Hz
AL-S03	30W	AC 110/220V	50/60Hz
AL-S04	40W	AC 110/220V	50/60Hz
AL-S05	50W	AC 110/220V	50/60Hz
AL-S07	70W	AC 110/220V	50/60Hz
AL-S09	90W	AC 110/220V	50/60Hz
AL-S11	110W	AC 110/220V	50/60Hz
AL-S13	130W	AC 110/220V	50/60Hz
AL-S15	150W	AC 110/220V	50/60Hz
AL-S20	200W	AC 110/220V	50/60Hz

**AL-S15-A Electrical Characteristics**

item	Min.	Typ.	Max.	Note
Input Voltage (V)	185	220	265	
Frequency (Hz)	45	50	60	
Input Power (W)	160	166	172	
Light Power (W)	145	150	155	
Power Factor	0.97	0.98	0.99	
THD	6%	8%	12%	
Power Efficiency	88	90	92	
Current Error	2%	3%	5%	
Ripple Noise (mV)	300	500	600	pk-pk
Turn On Delay Time (S)	0.1	0.2	0.5	

### AL-S15-A Optical Characteristics

Item	Parameter
LED Lighting Efficiency	≥90 Lm/W
Initial Luminous Flux	≥11500 Lm (T <sub>j</sub> =25°C)
Maintained Luminous Flux	≥9600 Lm (T <sub>j</sub> =70°C, T <sub>a</sub> =25°C)
Luminaire Efficiency	≥88%
Color Rendering Index	≥80
Effective Lighting Area	(height 8m ): 20×9m      (height 10m): 26×12m (height 12m): 30×15m      (height 14m): 40×18m
Color Temperature	6000K-7000K

### AL-S15-A Working Characteristics

Item	Parameter
Working Temperature	-20°C-45°C
Storage Temperature	-40°C-85°C
Adaptive Humidity	≤90%
material	Al、ABS and PMMA
MTBF	50000 hrs
IP Protection	IP66
Dimension	813 mm (L)*360 mm (W)*130 mm (H)
Installed Dimension	∅ 60 mm
Weight	14kg
Recommended Height	12m

## Maintained Luminous Flux Chart



## Light Distribution and Illuminance Chart



