

SZG512H ultra-bright led street light with dark sky



Applications:

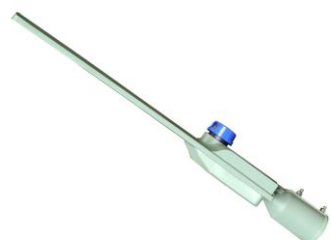
- expressway roads
- urban main roads, secondary roads
- economic development zone and high-tech park road
- industrial and mining plant road
- tourist attractions
- resort road
- park, parking roads

Note: It can be with 2.4G Mesh slave controller and gateway to form 2.4G Mesh ADHOC wireless lighting control system.

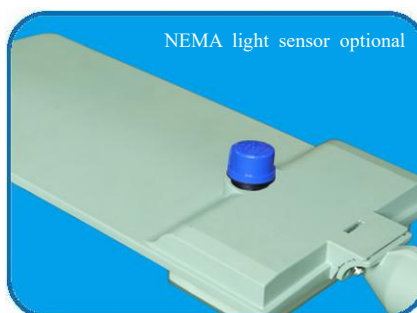
Description of performances:

luminous efficacy of led chip	light efficacy of luminaire	energy efficiency rating of luminaire	energy saving rate @conventional lamp	streamline shell	brand of led driver
250 lm/W	200 lm/W	Class 1 (≥ 175 lm/W)	35%	streamline shell without dust accumulation	Inventronics Trismart Lighting
power efficiency	power factor	total harmonic distortion	light sensor	adjustable angle	dark sky requirement
$\geq 95\%$	≥ 0.95	$\leq 10\%$	NEMA light sensor optional	tilt adjustable	yes

Product profiles:

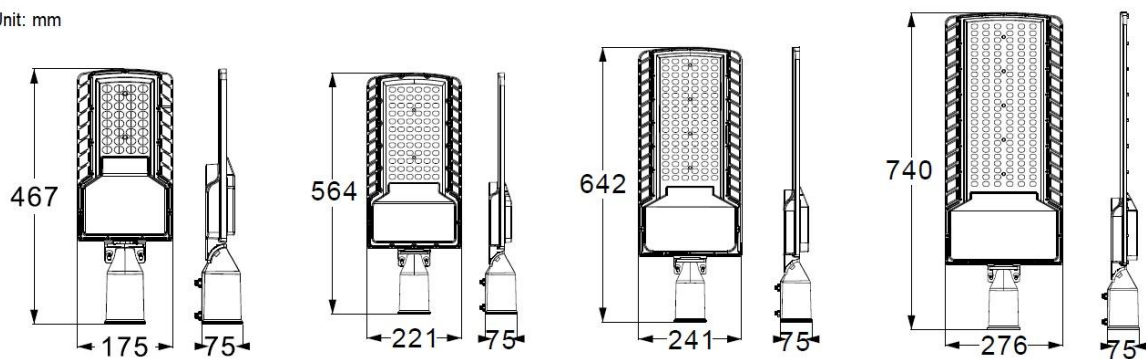


Product details:

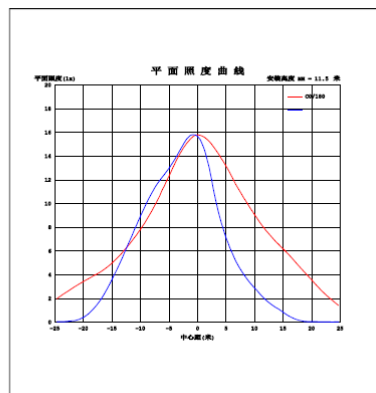
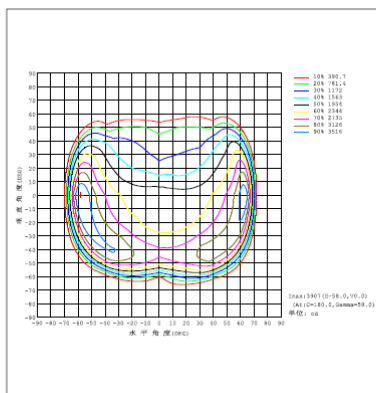
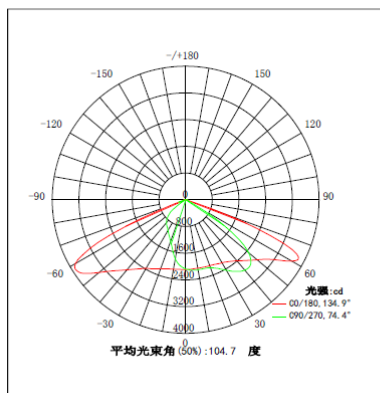


Dimensions of products:

Unit: mm



Light distribution curve:



Technical parameters:

Parameter items	50W	75W	100W	150W	200W
Input voltage (V)	90-305Vac	90-305Vac	90-305Vac	90-305Vac	90-305Vac
Power efficiency	≥95%	≥95%	≥95%	≥95%	≥95%
Power factor	≥0.95	≥0.95	≥0.95	≥0.95	≥0.95
Surge lightning protection (V)	6000	6000	6000	6000	6000
Total harmonic distortion	≤10%	≤10%	≤10%	≤10%	≤10%
Luminous efficiency for led (lm/W)	250	250	250	250	250
Light efficacy for luminaire (lm/W)	200	200	200	200	200
Energy efficiency rating of lamp	Class 1	Class 1	Class 1	Class 1	Class 1
Energy saving rate	35%	35%	35%	35%	35%
Luminous flux for luminaire (lm)	10000±5%	15000±5%	20000±5%	30000±5%	40000±5%
Correlated color temperature (K)	2500-5000	2500-5000	2500-5000	2500-5000	2500-5000
Color rendering index (Ra)	≥75	≥75	≥75	≥75	≥75
Beam angle (°)	140° *50°	140° *50°	140° *50°	140° *50°	140° *50°
LED lifespan (h)	≥100,000	≥100,000	≥100,000	≥100,000	≥100,000
Working temperature (°C)	-35°C - +55°C	-35°C - +55°C	-35°C - +55°C	-35°C - +55°C	-35°C - +55°C
IP protection	IP66	IP66	IP66	IP66	IP66
IK protection	IK08	IK08	IK08	IK08	IK08
Brand of led driver	Inventronics /Trismart Lighting	Inventronics /Trismart Lighting	Inventronics /Trismart Lighting	Inventronics /Trismart Lighting	Inventronics /Trismart Lighting
Installation mode of led driver	built-in	built-in	built-in	built-in	built-in
NEMA light sensor	optional	optional	optional	optional	optional
Dimensions (mm)	467*175*75	518*200*68	564*221*75	642*241*75	740*276*75
Weight (Kg)	2.2	2.6	3.2	4.0	5.0
Diameter of installation pipe (mm)	φ60	φ60	φ60	φ60	φ60
Recommended mounting height (m)	7	8-9	9-10	11-12	12+
Warranty	5 years	5 years	5 years	5 years	5 years

Note: 1. According to GB 37478-2025: the luminous efficacy of Class 1 energy-efficient led street light is 175 lm/W; for Class 2, it is 155 lm/W; and for Class 3, it is 130 lm/W.

2. Energy saving rate is compared with the conventional luminaire of class 3 energy efficiency rating.

Product mounting and tilt adjustment:

