



Cloverfour Renewable Energy Solutions

Streetlights all in one Series N



PT Vistana Insinyur Servis Co. reg. no (NPWP): 03.297.743.1-215.000

Sakura Garden Block AA no 7 Kampung Seraya Batu Ampar

Batam Kepri Indonesia 29454 vistanainsinyurservis@gmail.com

Specifications:

Model	ZGSM-LD30N
LED Brand	Lumileds
Solar Panel	80W Monocrystal
LED power	30W
Battery Spec.	93AH /3.2V
Constant worktime at 100% power	8 hours
Power Efficiency	>90%
Charge Time	5 Hours
Lamp Rated Luminous Efficiency	>170lm/w
Lamp Rated Lumen output	9300 lm (Lumen tolerance +/- 5%)
Color Rendering Index	Ra>70
Color Temperature	4000 or 5000 or 5700K
Photometric Type	Type II Medium
Optimal Operating Temperature	25°C
Storage Temperatures	-40°C~50°C
Working Environment	Between-40°C~+50°C, 10%~90%RH
Total Harmonic Distortion	< 10%
Lumen Maintenance	> 100000 hours -L70, @25 °C (77 °F)
Body and Shell Materials	Anodized Aluminum
IP Rating	IP66 with test report
IK Rating	IK10 with test report
Certification	CE,ROHS
Optional Function	Timer
Warranty	3 years
Mode	ZGSM-LD30N
Product Dimensions(Lamp /Solar Panel /Battery)(mm)	284*166*68 /670*790*450*640/220*113*77
Carton Size(Lamp /Solar Panel /Battery)(mm)	290*180*100 /805*715*110 /350*100*130
N.W(Lamp /Solar Panel /Battery)(kg)	1.0 /5.6 /3.54

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Waterproof Aluminum box with lithium battery and charge Controller



Main Features

- Adopts MPPT charging method, which increases the utilization of solar panel.
- Lithium battery low temperature charging protection, which effectively protects the battery.
- Intelligent computing, detecting the ratio of charge and discharge, to achieve the lights stay on 365 days.
- If no charge within 24 hours, the system automatically goes into hibernation, easy to transport long-distance, long-term storage to avoid causing battery bursts.
- Realize Bluetooth communication between the mobile phone and the system, users can customize the lighting mode and view the system operation in real time.
- Integrated Battery Management System (BMS) which monitors the health, charging and discharging of the battery pack. This safeguards the cells so that they are not over charged or discharged, maximising their lifetime.
- Overheat protection function, when the controller reaches a certain temperature, it will decrease or close the load.
- Working status indication, easy to maintain.

High Efficiency Solar Panel



High Conversion Efficiency of Module (from 19% to 20%), with superior cell technology and leading manufacturing capability. The solar panels are CE certified and carry a 10-year product warranty. Hail-resistant and corrosion-proof. Rated outputs on the panels are 90% minimum for the first 10 years and 80% minimum after 25 years.

Optional Accessories



Bracket for solar panels



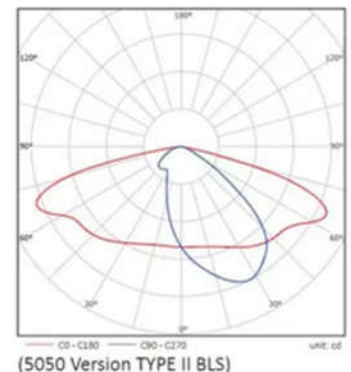
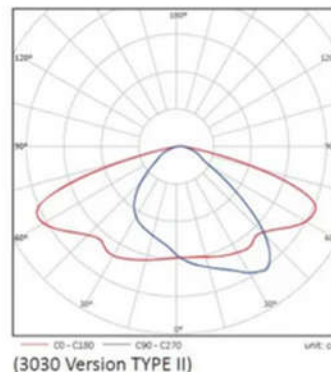
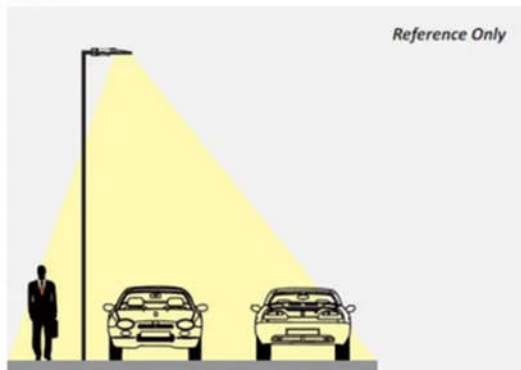
Mounting arm for luminaires

The Q235 steel is heated galvanized and sprayed to ensure that the mounting bracket of solar panels and the mounting arm of luminaires can be used in outside for long time.

Electrical & Photometric

Model	Power	Luminaire efficacy (+/- 5%)	Lumen Output (+/- 5%)	Solar Panel Spec.	Battery Spec. (Lithium)	Constant worktime at 100% power	Charge Time	Working Environment	Storage Temperature	Rating	CRI	Material
ZGSM-LD20N	20W	175 /180 lm /w	3500 /3600 lm	60W Monocrystal	66AH /3.2V	8.5 Hours	5 Hours	-40 ℃ ~ +50 ℃ 10% ~ 90%RH	-40 ℃ ~ +50 ℃	IP66 IK10	>70	Housing: Die-cast aluminum Lens: PC
ZGSM-LD30N	30W	170 /175 lm /w	5100 /5250 lm	80W Monocrystal	93AH /3.2V	8 Hours	5 Hours					
ZGSM-LD40N	40W	165 /170 lm /w	6600 /6800 lm	120W Monocrystal	50AH /12.8V	12.5 Hours	5 Hours					
ZGSM-LD50N	50W	160 /165 lm /w	8000 /8250 lm	150W Monocrystal	50AH /12.8V	10 Hours	5 Hours					

Optics



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Series N

Solar Street Light System



Model list:
ZGSM-LD20N
ZGSM-LD30N
ZGSM-LD40N
ZGSM-LD50N

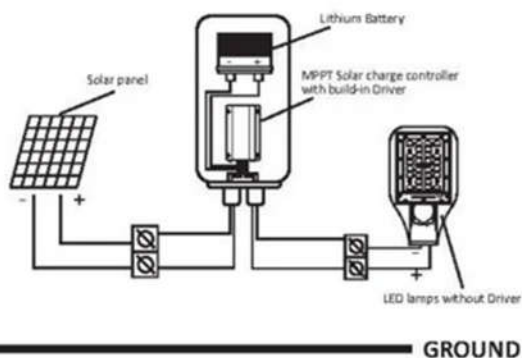
Solar Panel with bracket



Waterproof Aluminum Box With Lithium Battery and Charge Controller



Parts Connection Diagram



AFTER-SALE SERVICE-7 years warranty

Cloverfour warrants this hardware product against defects in materials and workmanship under normal use for a period of Seven (7) YEAR from the date of purchase.

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