Introducing a New Experience

Overview

A new revolucionary product combining solar and LED technology. The best solution for all these areas that doesn´t have electricy supply, remote places with no good communications, and all the areas with electricity supply but with good climatology. The system charges the battery during the day and illuminate at night. Due to the use of LED technology, is able to maximize all the solar energy and illuminate the environment with radiant light.

Application
- Garden, Residence, Courtyard
- Areas with difficult communications
- All areas with good climatology
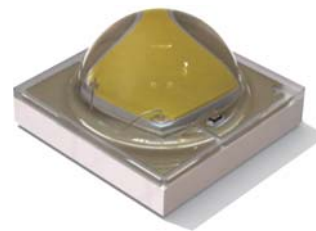- Areas with no electrical supply

ZGSM

Product benefits

LG Innotek LED LUMINOUS SOURCE

The new ZGSM integrated solar street lights utilize LG LED luminous source, which guarantees excellent lumen output up to 110Lm/W, great stability and fantastic light.

Each LG LED owns electrostatic protection component, avoiding electrostatic damage.

Infrared body sensor/ Microwave induction

With infrared body induction controlled technology, it can store energy during the daylight, and modulate it on/off when people pass through at night.
During the night, the light can work automatically controlled by the smart sensor: It will be on bright mode when people pass throught and on energy-saving mode when not (working mode can be adjusted according to client´s demands).

All-in-one design

The solar panel will receive the solar energy and be stored in the Lithium-Iron battery through the charge controller, to finally be used to illuminate at night. Due to the use of high-end LED technology, the solar light will be 100% optimized.

Solar panel   Lithium-Iron battery   Controller

ZGSM

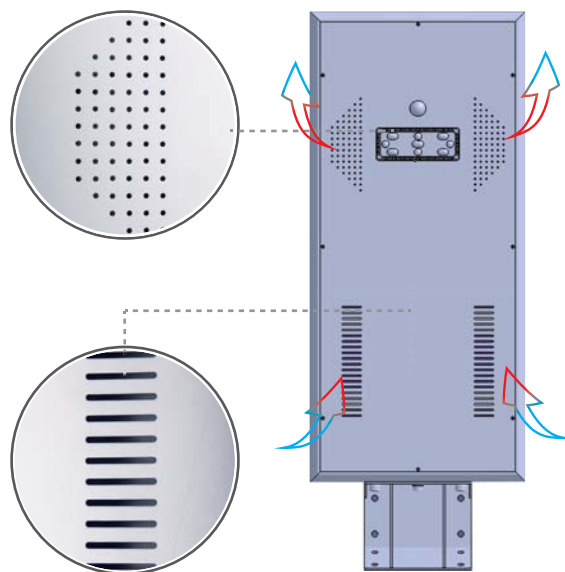## Product benefits

UNIQUE LUMINARIE DESIGN

The lamp is 100% Designed by ZGSM engineers. The integrated design makes the light simple, stylish and practical; solar energy supply means clean energy and clean energy means save costs. Once installed, it will not need to face any other costs.

The luminarie can be adjusted to different angles, depending on the latitude and characteristics of the land. It can be installed vertically and horizontally, or on a wall. It is designed to install, maintain or repair easily, maintain or repair. Its surface can absorb all the solar energy and its infrared body sensor modulates to save energy during night-time. All these are without cables.
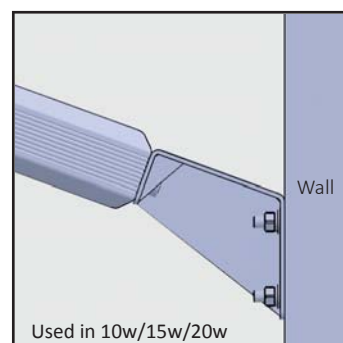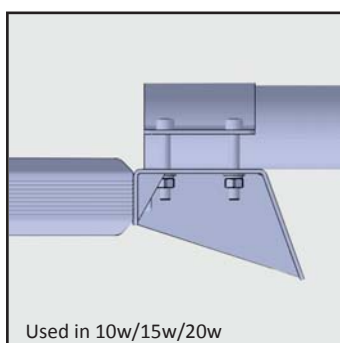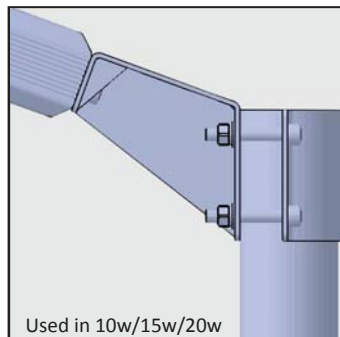The Lithium-Iron barrery is compressed and has three main characteristics: reduced size, high-capacity and long life-span.

Up to 110 Lm/W (Lumens per Watt) light output and +90% driver efficiency. ZGSM provide 3 years warranty for the luminarie.

For more information about ZGSM integrated solar street light and LED lighting technologies, please visit www.zgsm-china.com.

FLEXIBLE INSTALLATION

Vertical Installation

Horizontal Installation

Used in 10w/15w/20w

Used in 30w/40w/50w

Used in 10w/15w/20w

Wall

Used in 10w/15w/20w

The installation can be adjusted according to different environments or illumination needs.

ZGSM

ZGSM-PVLD10

Introducing a New Premium Experience

Automatic light control
-Infrared sensor
-Microwave induction
After the sensor activates may occur two different reactions:
-When the battery is working in "normal mode", the lamp will turn to "save mode". After one minute will turn back to "normal mode".
-When the battery is working in "low battery mode", one minute after working in "save mode", the lamp will turn to "50% light mode"

782 mm
30.8 inches

301 mm
11.9 inches

88 mm
3.5 inches

Specifications

Electrical Specifications:

Model No.	ZGSM-PVLD10
LED Number	7 Units
Nominal Power	10 W
Solar Panel Spec.	Monocrystal 25W/18V
Battery Spec.	9AH/12V
Constant Worktime at Full Power	8 Hours
Worktime at Energy-saving Mode(25%)	≥40 Hours
Charge Time	Max power 5~6 Hours
Charge Temperature	<60℃
Discharge Temperature	-20℃~60℃
Switch Lights Sense Threshold	on ≤10 LXS, off ≥15 LXS

Photometric Specifications:

Luminous Flux (full power)	1100 lm (†Lumen tolerace +/- 5%)
Light Type	1S
CCT	3000K 4000K 5000K 5700K

Mechanical Specifications:

Installation Height	3~4m
Installation Distance	12m
Lamp Pole Diameter	40~60mm
Fixture Dimensions	782 x301 x88 mm
	30.8 x11.9 x3.5 inches
Fixture Weight	7.1 kg /15.7 lbs

1S

C0 - C180   C90 - C270   unit: cd
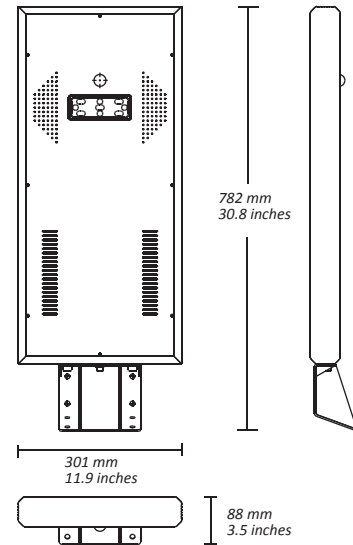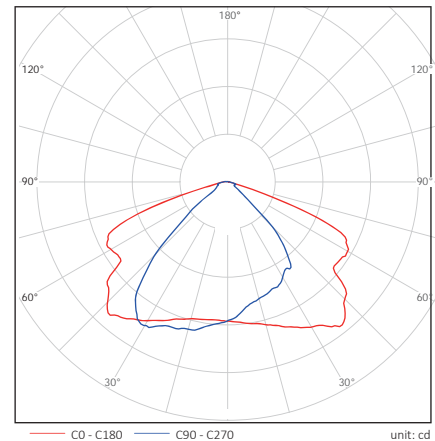
Packing Type
1unit(s)/ctn.

Packing Dimensions
860 x375 x140 mm
33.9 x14.8 x5.5 inches

Packing Weight
8.3 kg /18.3 lbs

ZGSM

ZGSM-PVLD15
Introducing a New Premium Experience

Automatic light control
-Infrared sensor
-Microwave induction
After the sensor activates may occur two different reactions:
 -When the battery is working in "normal mode", the lamp will turn to "save mode". After one minute will turn back to "normal mode".
 -When the battery is working in "low battery mode", one minute after working in "save mode", the lamp will turn to "50% light mode"

782 mm
30.8 inches

301 mm
11.9 inches

88 mm
3.5 inches

Specifications

Electrical Specifications:

Model No.	ZGSM-PVLD15
LED Number	7 Units
Nominal Power	15 W
Solar Panel Spec.	Monocrystal 25W/18V
Battery Spec.	9AH/12V
Constant Worktime at Full Power	7 Hours
Worktime at Energy-saving Mode(25%)	≥35 Hours
Charge Time	Max power 5~6 Hours
Charge Temperature	<60℃
Discharge Temperature	-20℃~60℃
Switch Lights Sense Threshold	on ≤10 LXS, off ≥15 LXS

Photometric Specifications:

Luminous Flux (full power)	1650 lm (†Lumen tolerance +/- 5%)
Light Type	1S
CCT	3000K 4000K 5000K 5700K

Mechanical Specifications:

Installation Height	3~4m
Installation Distance	15m
Lamp Pole Diameter	40~60mm
Fixture Dimensions	782 x301 x88 mm
	30.8 x11.9 x3.5 inches
Fixture Weight	7.1 kg /15.7 lbs

1S

C0 - C180   C90 - C270   unit: cd
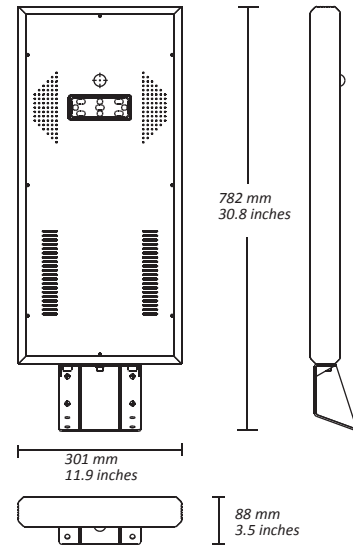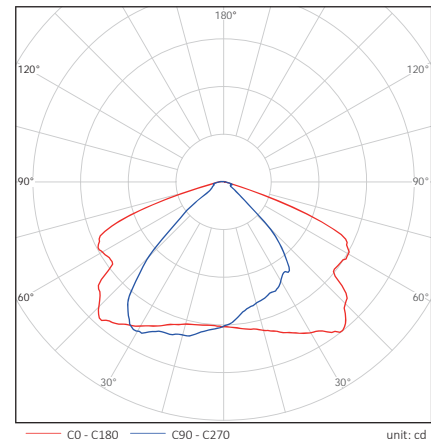
Packing Type
1unit(s)/ctn.

Packing Dimensions
860 x375 x140 mm
33.9 x14.8 x5.5 inches

Packing Weight
8.3 kg /18.3 lbs

ZGSM

ZGSM-PVLD20
Introducing a New Premium Experience

Automatic light control
-Infrared sensor
-Microwave induction
After the sensor activates may occur two different reactions:
  -When the battery is working in "normal mode", the lamp will turn to "save mode". After one minute will turn back to "normal mode".
  -When the battery is working in "low battery mode", one minute after working in "save mode", the lamp will turn to "50% light mode"
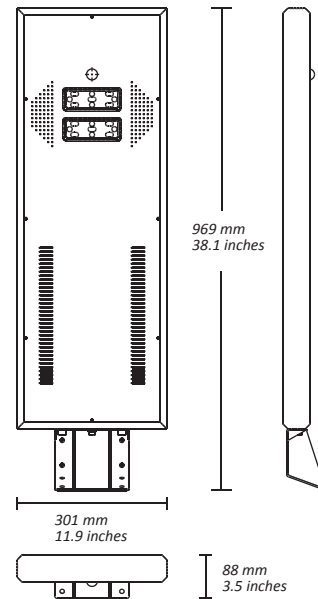
Specifications

Electrical Specifications:

Model No.	ZGSM-PVLD20
LED Number	10 Units
Nominal Power	20 W
Solar Panel Spec.	Monocrystal 33W/18V
Battery Spec.	16.5AH/12V
Constant Worktime at Full Power	7 Hours
Worktime at Energy-saving Mode(25%)	≥35 Hours
Charge Time	Max power 5~6 Hours
Charge Temperature	<60℃
Discharge Temperature	-20℃~60℃
Switch Lights Sense Threshold	on ≤10 LXS, off ≥15 LXS

Photometric Specifications:

Luminous Flux (full power)	2200 lm (†Lumen tolerace +/- 5%)
Light Type	1S, 2S
CCT	3000K 4000K 5000K 5700K

Mechanical Specifications:

Installation Height	4~5m
Installation Distance	18m
Lamp Pole Diameter	40~60mm
Fixture Dimensions	969 x301 x88 mm
	38.1 x11.9 x3.5 inches
Fixture Weight	8.9 kg /19.6 lbs

969 mm
38.1 inches

301 mm
11.9 inches

88 mm
3.5 inches

1S

C0 - C180   C90 - C270   unit: cd

2S

C0 - C180   C90 - C270   unit: cd
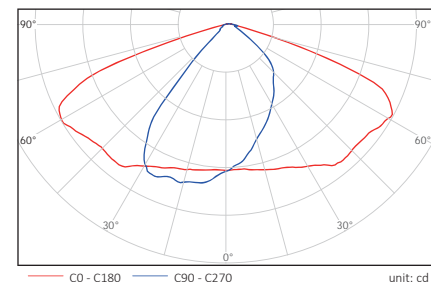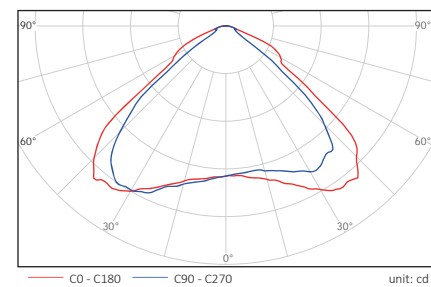
Packing Type
1unit(s)/ctn.

Packing Dimensions
1045 x375 x140 mm
41.1 x14.8 x5.5 inches

Packing Weight
10.5 kg /23.2 lbs

ZGSM

ZGSM-PVLD30
Introducing a New Premium Experience

Automatic light control
-Infrared sensor
-Microwave induction
After the sensor activates may occur two different reactions:
 -When the battery is working in "normal mode", the lamp will turn to "save mode". After one minute will turn back to "normal mode".
 -When the battery is working in "low battery mode", one minute after working in "save mode", the lamp will turn to "50% light mode"

Specifications

Electrical Specifications:

Model No.	ZGSM-PVLD30
LED Number	15 Units
Nominal Power	30 W
Solar Panel Spec.	Monocrystal 50W/18V
Battery Spec.	24AH/12V
Constant Worktime at Full Power	7 Hours
Worktime at Energy-saving Mode(25%)	≥35 Hours
Charge Time	Max power 5~6 Hours
Charge Temperature	<60℃
Discharge Temperature	-20℃~60℃
Switch Lights Sense Threshold	on ≤10 LXS, off ≥15 LXS

Photometric Specifications:

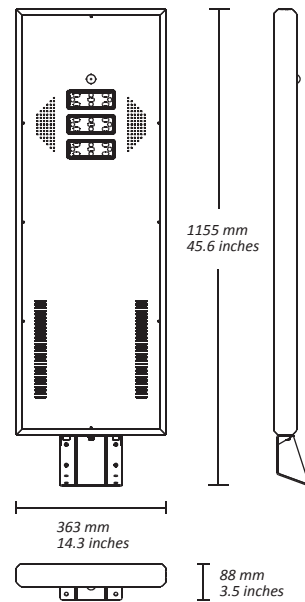|	
Luminous Flux (full power)	3300 lm (†Lumen tolerace +/- 5%)
Light Type	1S, 2S
CCT	3000K 4000K 5000K 5700K

Mechanical Specifications:

Installation Height	5~6m
Installation Distance	20m
Lamp Pole Diameter	40~60mm
Fixture Dimensions	1155 x363 x88 mm
	45.5 x14.3 x3.5 inches
Fixture Weight	14.6 kg /32.2 lbs

1155 mm
45.6 inches

363 mm
14.3 inches

88 mm
3.5 inches

1S

C0 - C180   C90 - C270   unit: cd

2S

C0 - C180   C90 - C270   unit: cd
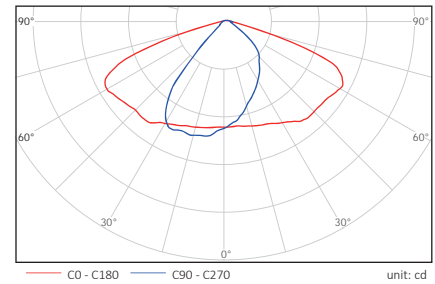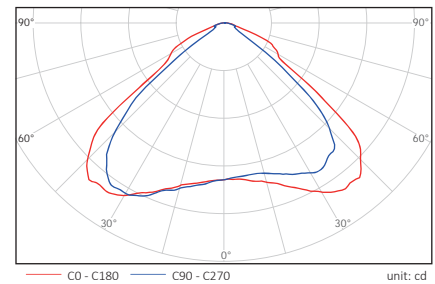
Packing Type
1unit(s)/ctn.

Packing Dimensions
1225 x445 x140 mm
48.2 x17.5 x5.5 inches

Packing Weight
16.4 kg /36.2 lbs

ZGSM

ZGSM-PVLD40

Introducing a New Premium Experience

Automatic light control
-Infrared sensor
-Microwave induction
After the sensor activates may occur two different reactions:
 -When the battery is working in "normal mode", the lamp will turn to "save mode". After one minute will turn back to "normal mode".
 -When the battery is working in "low battery mode", one minute after working in "save mode", the lamp will turn to "50% light mode"
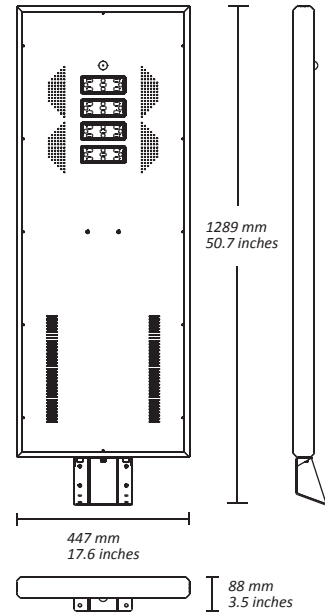
Specifications

Electrical Specifications:

Model No.	ZGSM-PVLD40
LED Number	20 Units
Nominal Power	40 W
Solar Panel Spec.	Monocrystal 75W/17.5V
Battery Spec.	33AH/12V
Constant Worktime at Full Power	7 Hours
Worktime at Energy-saving Mode(25%)	≥35 Hours
Charge Time	Max power 5~6 Hours
Charge Temperature	<60℃
Discharge Temperature	-20℃~60℃
Switch Lights Sense Threshold	on ≤10 LXS, off ≥15 LXS

Photometric Specifications:

Luminous Flux (full power)	4400 lm (†Lumen tolerace +/- 5%)
Light Type	1S, 2S
CCT	3000K 4000K 5000K 5700K

Mechanical Specifications:

Installation Height	6~7m
Installation Distance	25m
Lamp Pole Diameter	40~60mm
Fixture Dimensions	1289 x447 x88 mm
	50.7x17.6 x3.5 inches
Fixture Weight	17.7 kg /39.0 lbs

1289 mm
50.7 inches
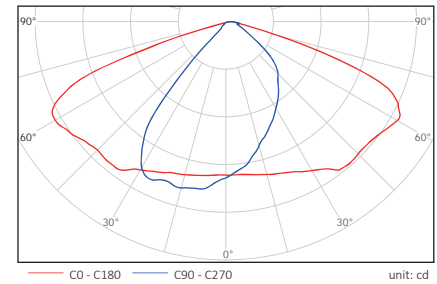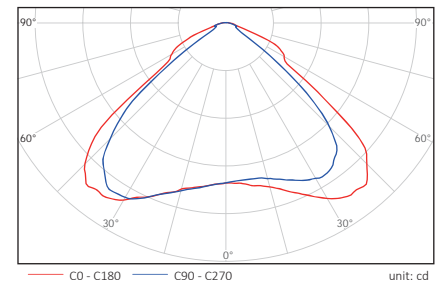
447 mm
17.6 inches

88 mm
3.5 inches

1S

C0 - C180   C90 - C270   unit: cd

2S

C0 - C180   C90 - C270   unit: cd

Packing Type
1unit(s)/ctn.

Packing Dimensions
1370 x520 x140 mm
54.0 x20.5 x5.5 inches

Packing Weight
20.1 kg /44.3 lbs

ZGSM

ZGSM-PVLD50
Introducing a New Premium Experience

Automatic light control
-Infrared sensor
-Microwave induction
After the sensor activates may occur two different reactions:
 -When the battery is working in "normal mode", the lamp will turn to "save mode". After one minute will turn back to "normal mode".
 -When the battery is working in "low battery mode", one minute after working in "save mode", the lamp will turn to "50% light mode"
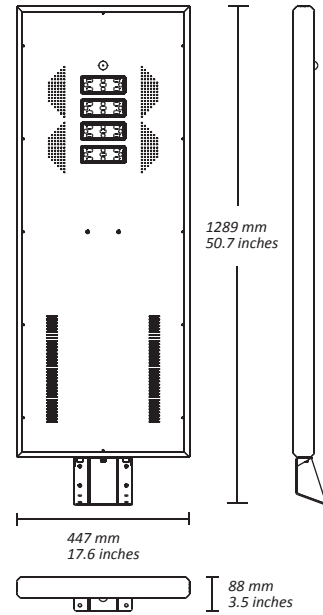
Specifications

Electrical Specifications:

Model No.	ZGSM-PVLD50
LED Number	20 Units
Nominal Power	50 W
Solar Panel Spec.	Monocrystal 75W/17.5V
Battery Spec.	40AH/12V
Constant Worktime at Full Power	7 Hours
Worktime at Energy-saving Mode(25%)	≥35 Hours
Charge Time	Max power 5~6 Hours
Charge Temperature	<60℃
Discharge Temperature	-20℃~60℃
Switch Lights Sense Threshold	on ≤10 LXS, off ≥15 LXS

Photometric Specifications:

Luminous Flux (full power)	5500 lm (†Lumen tolerace +/- 5%)
Light Type	1S, 2S
CCT	3000K 4000K 5000K 5700K

Mechanical Specifications:

Installation Height	7~8m
Installation Distance	30m
Lamp Pole Diameter	40~60mm
Fixture Dimensions	1289 x447 x88 mm
	50.7x17.6 x3.5 inches
Fixture Weight	18.4 kg /40.6 lbs

1289 mm
50.7 inches
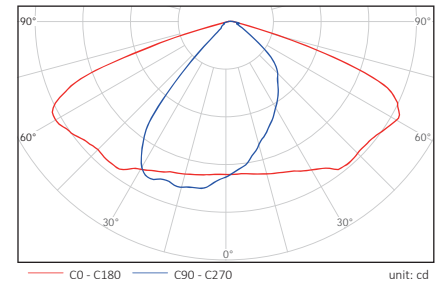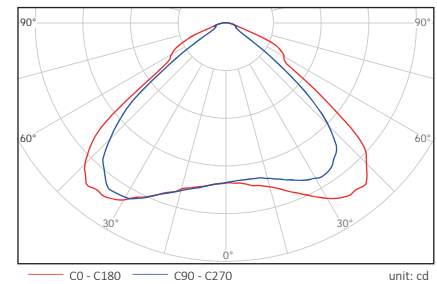
447 mm
17.6 inches

88 mm
3.5 inches

1S

C0 - C180   C90 - C270   unit: cd

2S

C0 - C180   C90 - C270   unit: cd

Packing Type
1unit(s)/ctn.

Packing Dimensions
1370 x520 x140 mm
54.0 x20.5 x5.5 inches

Packing Weight
20.8 kg /45.9 lbs

ZGSM