



SOLAR SYSTEMS & SOLUTIONS

شركة محور الأرض ش.م.م
Global Axis Co L.L.C

SOLAR SYSTEMS & SOLUTIONS



Saving and maximizing the utilization of energy is increasingly becoming the new global trend. Generating power through the use of natural resources, such as the sun and wind, serves to cut down costs or reduce the need for expensive large scale grid level infrastructure in the long run.

Solar electricity production involves three simple steps: how to create the power, where to store it and how to use it. Creating a balance between the three steps brings out the most optimal usage and significant cost cuttings.

Solar Off-Grid Solutions: Street Lights

Hawk Series

Street Lights

Features

- Low maintenance
- Reduce setup cost (i.e. cables, execution)
- Long life / durable
- Auto ON/OFF
- Local warranty
- One-stop shop



Model Number	GA10-RSLF03-30	GA10-RSLF02-40	GA10-RSLF01-50
Power	30W	40W	50W
Luminous Flux	3600LM	4800LM	6000LM
Beam Angle		120	
No. of LED	160	406	575
Battery Type	Li-ion 3.2V/40AH		
Working Time	12 - 15Hrs.		
Charging Time	4 - 6Hrs.		
Unit Color	Black		
Body Type	Aluminium		

Specifications

Includes Design, Fabrication, Manufacturing, Transportation, Installing, Commissioning and Maintaining



More Solar Street Lights:

Tron Series

Features

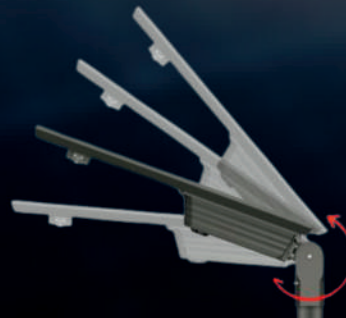
- Highly efficient with 180-200LM/W efficacy
- Adjustable LED module
- Die-casting aluminum housing, robust and durable
- Protection grade is IP66 / IK08
- 2-3 overcast days autonomy
- LiFePO₄ battery with 2000 lifecycles, safe and reliable
- Easy access to battery compartment
- Coupled with motion sensor for longer working hours

Specifications

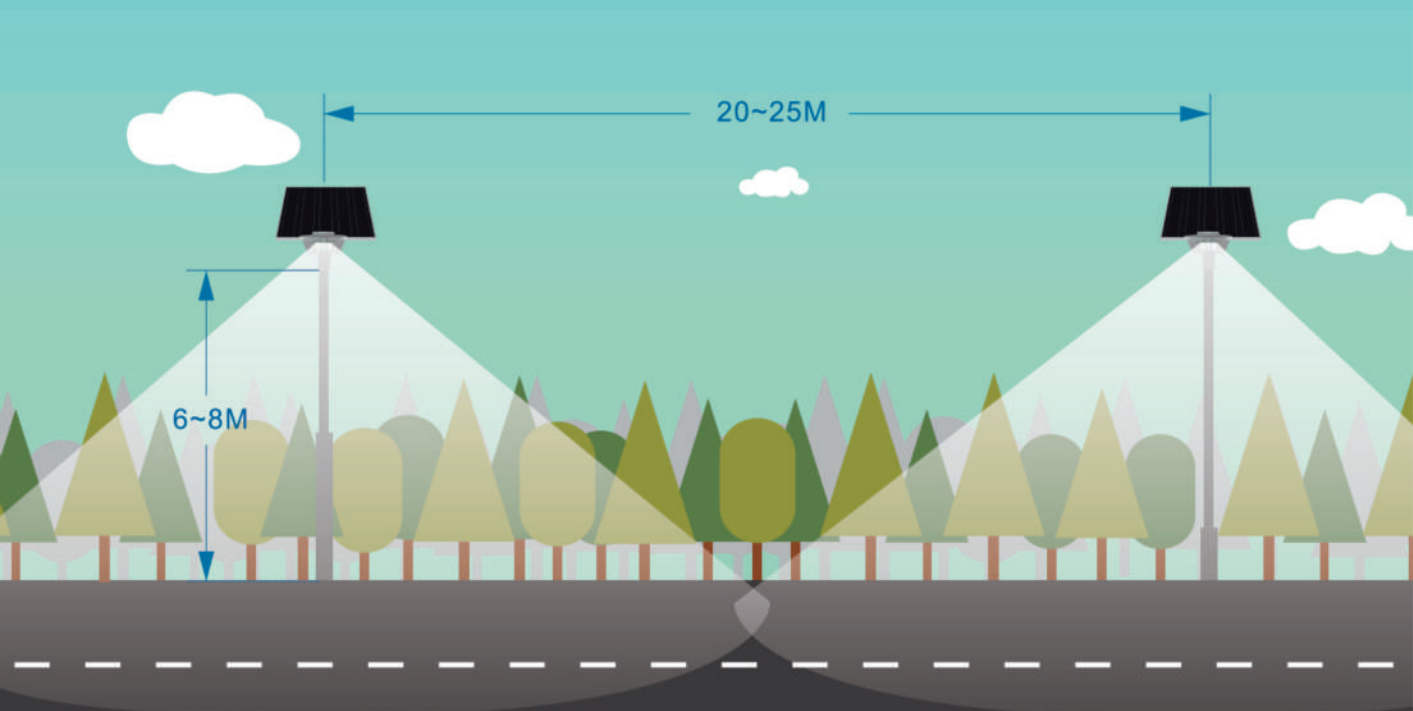
Model Number	GA118-SSLC04-40W	GA118-SSLC01-60W	GA118-SSLC02-80W
System Voltage	12V	24V	24V
Monocrystalline Solar Panel	50W/18V	80W/36V	100W/36V
LiFePO ₄ Battery	12.8V/24AH	25.6V/18AH	25.6V/24AH
Charging Time	6.2Hrs.	5.8Hrs.	6.2Hrs.
Full Power Working Time		7.7Hrs.	
Output Power	40W	60W	80W
LED Lifetime	>100,000Hrs.		
Luminaire Efficacy	180LM/W		
Control Mode	Infrared Induction: Height=6m, Width=7m; Microwave Induction: Height=8m, Width=10m. Photocontrol + Time Control		
Lighting Mode	When people approach: 2Hrs. 100%, 3Hrs. 50%, 6Hrs. 20% , 1Hr. 30%; When nobody:20%;		
Overcast Days	2-3 Days		



Adjustable Mounting Angle of LED module

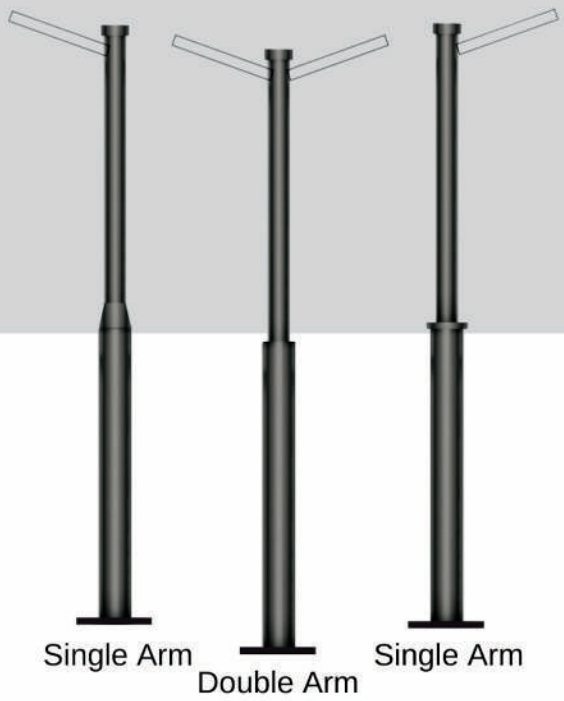


Adjustable Mounting Angle of Solar Luminaire

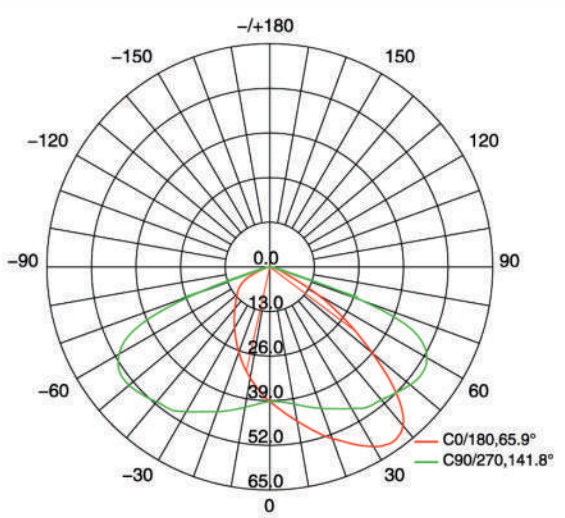


Pole specifications

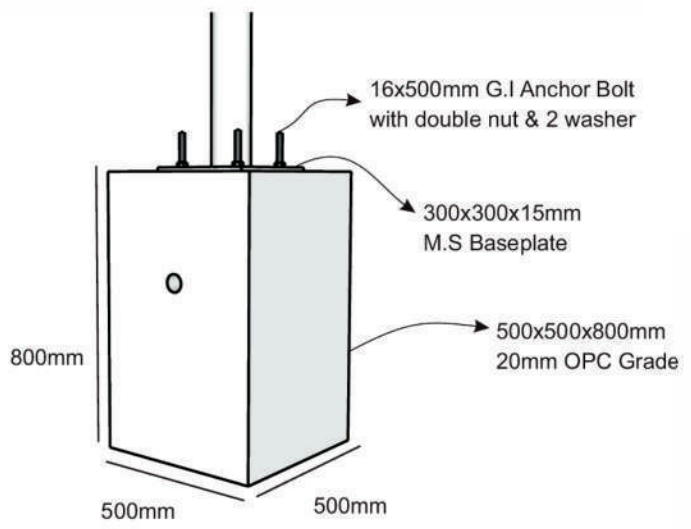
Material	Galvanized Steel
Heights	3m / 4m / 6m / 8m
Arms	Single/Double
Dia	2" / 3" / 4" / 6"
Coating	Paint
Color Tone	



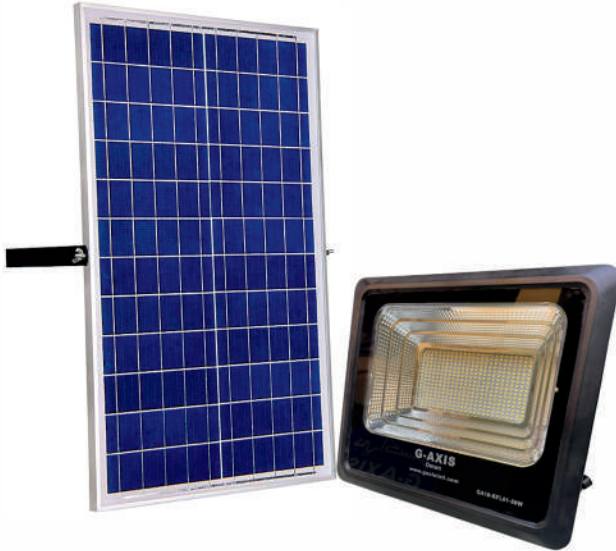
Light Distribution



Pole Foundation



Solar Off-Grid Solutions: Floodlights



Solar Floodlights

Features

- Intelligent high-brightness light source
- Strong waterproof protection
- High conversion rate
- Free wiring and high capacity battery
- Long life battery (about 12 hours)
- Local warranty
- Wide lighting range

Model Number	GA10-RFL01-50W/CW
Power	50W
Luminous Flux	3300LM
Working Time	10-12Hrs.
IP Rating	IP 65
CRI	>80
Color Temperature	6500K
Power Factor	>0.95
Life Span	50000Hrs.
Working Temperature	-20C to +60C
Beam Angle	120
Certification	Ce, RoHS
Input Voltage	DC6.4V



Automatic daytime charging

Automatic lights at night



Dimensions:

433*356 mm

Specifications



Applications

- Billboards
- Theme parks
- Gardens
- Sport stadiums



Gardens



Billboards

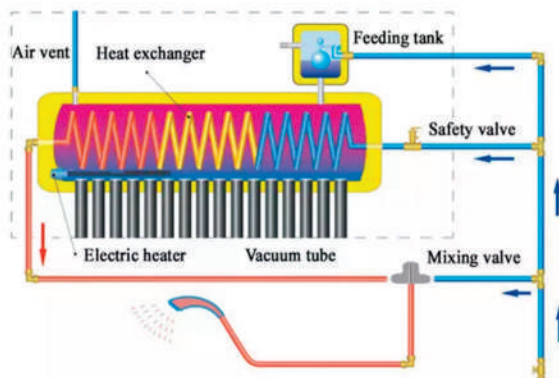
Solar Water Heaters: Pressurized / Non-pressurized



Solar Water Heater | Features

- Machine made water tanks
- Inner tank is made of food grade stainless steel SUS304 plates
- Heat insulation material of water tank composed of cellular polyurethane
- Easy installation - stainless steel structure is connected by nuts and bolts
- Adjustable tubes and structure
- Whole glass vacuum tubes are made of hard borax and silica glass
- Absorption > 93%, thermal radiation rate < 6%

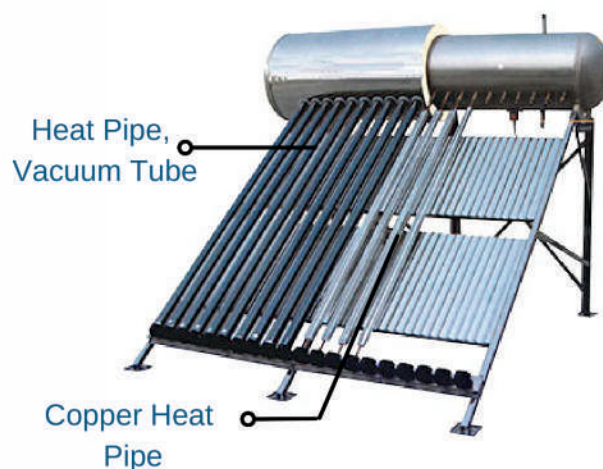
Pressurized water heaters



Typically characterized by an enclosed heating unit containing copper tubes that are connected directly to a tank. Its thicker inner tanks withstand pressure up to 10 bars



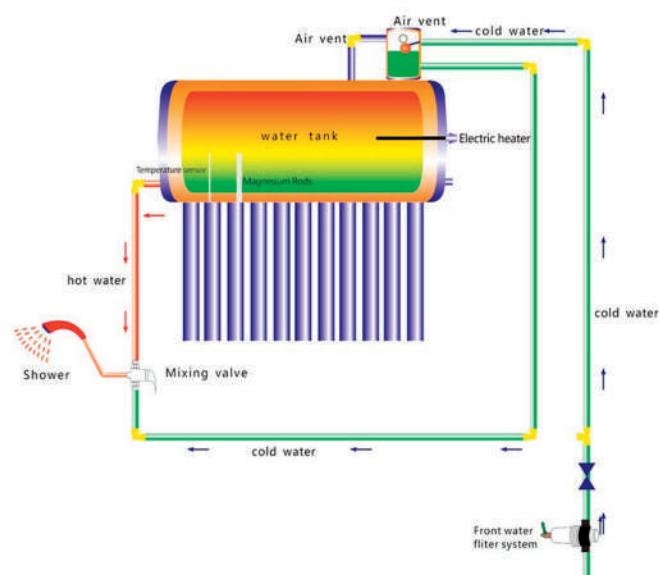
Model Number	GA116-RWHB02-200
Main Tank Capacity	20L
Assistant Tank Capacity	5L
Vacuum Tubes	20 condenser tubes
Inner Tank	SUS 304 SS / (optional: SUS 316 SS)
Outer Tank	SUS 304 SS
Type	Residential
Stand	Stainless Steel
Heating Element	220V/2000W



Specifications

Non-Pressurized water heaters

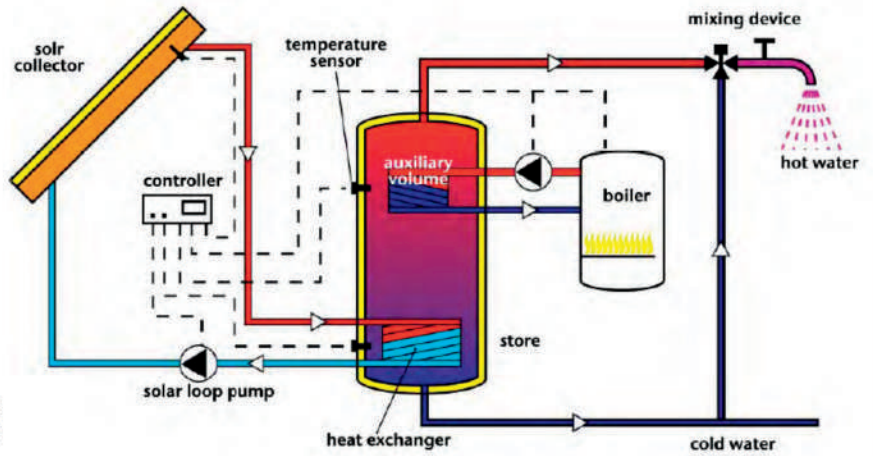
Non-pressurized solar water heaters are designed to function without the involvement of pressure, solely rely on gravity for water flow. These thinner inner tanks withstand pressures up to 2 bars and have their vacuum tubes directly exposed to the inner tanks.



Specifications

Model Number	GA116-RWHA01-100	GA116-RWHA02-200	GA116-RWHA03-300
Main Tank Capacity	100L	200L	300L
Assistant Tank Capacity	5L		
Vacuum Tubes	10 condenser tubes	20 condenser tubes	30 condenser tubes
Inner Tank	SUS 304 SS		
Outer Tank	SUS 304 SS		
Type	Residential		
Stand	Stainless Steel		
Heating Element	220V/2000W		

Solar Water Heaters: Commercial



Specifications

Item number	GA116-RWHC01-500
Heating Element	220V/2000W
Assistant Tank Capacity	19L
Vacuum Tubes	60 Condenser tubes
Inner Tank	SUS 304 SS
Outer Tank	SU
Type	Commercial
Main Tank Capacity	500/1000 /1500/2000L

More Solar Off-grid Solutions:

Solar Pump



Low Maintenance



Easy to install



Simple and reliable



No fuel costs / spills



Construction Tower Lighting



CCTV Cameras: Dome PTZ, Gun Type, Customize

Cables inside mast optional

24/7 Evidence recording

Multifunction, compatible for communication

Optional functions:
LED light, speaker, net bridge

Solar Diversion Signs

Model Number	GA10-RSDA01-1200	GA10-RSDA02-1800	GA10-RSDA03-2400
Power	35 W		
Visual Distance	>300 m		
Input Voltage	12 / 24 V		
Flash Duration	60 times/minute		
LED Color	Amber		
Working Temperature	25-65°C		
Size	1200 mm × 200 mm × 52 mm	1800 mm × 900 mm × 52 mm	2400 mm × 1200 mm × 52 mm



No Wire



Self Charging



Water Proof

Solar Traffic Signs



Visible in broad daylight

Solar powered, cost effective solution

Designed to flash,
draw attention



No Wire



Self Charging



Water Proof

Solar Obstruction Lights

Low / Medium Intensity



Power consumption 9W

GPS sync flashing

Integrated circuit
stand-alone type

Inbuilt photo sensor



High Intensity

Power consumption 18W

GPS sync flashing

Integrated circuit
stand-alone type

Inbuilt photo sensor



Products are in compliance to aviation standards

Applications



Residential Solar Systems



Agricultural Sectors



Roof Tops

PROJECTS



Solar Street Lights



Solar Water Pumps



Solar Water Heaters



Solar Powered Radio Tower

MORE PROJECTS



Solar off-grid system, PDO (Oman)



Solar Street Lights, Al Mouj



Solar Street Lights, Al Hail



Solar Street Lights, Al Mudhaibi

Solar Solutions: Solar On-grid Systems



What does a Solar On-grid System mainly consist of?

Solar Panels:

Used to convert light from the sun into electricity



Inverter:

Converts direct current (DC) generated by solar panel to alternating current (AC)

Utility Grid:

Takes electricity power from a generator to distribute it to consumers



Solar System Connection

Why use Solar On-grid system?

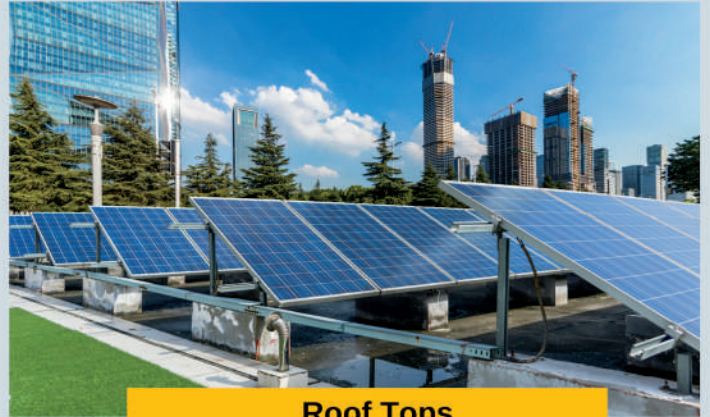
- **Low maintenance:** On-grid Solar system is the most economical type of solar system for homeowners, as it avoids using of batteries and has low maintenance
- **Reliable:** If you install an on-grid solar system, it will collect and save solar radiation in the utility grid. Thus, during a power shutdown, it can provide you with power for your electrical appliances
- **Reduction in electric bills**
- **Robust system:** Life of solar panels are up to 30 years



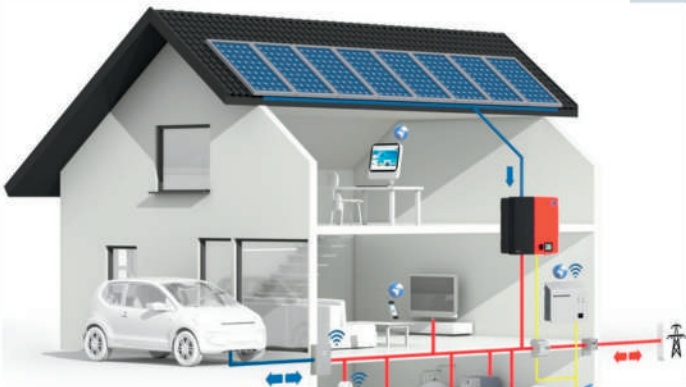
Applications



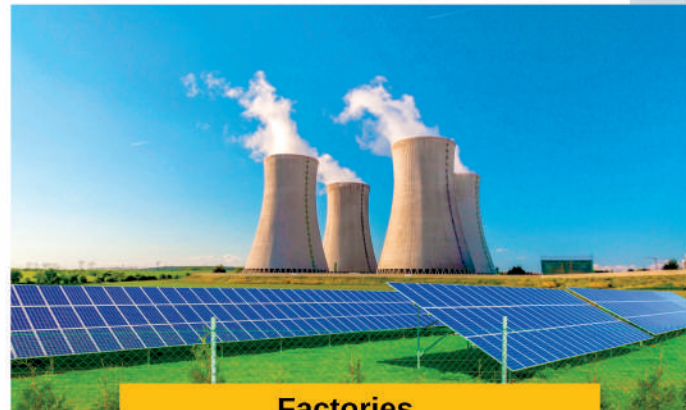
Solar Car Parks



Roof Tops



Residential Solar System



Factories



Warehouses

Other G-AXIS Products



LED Lights



Greenhouse Structure

OMAN - HEADQUARTERS

Global Axis Co LLC

PO Box 1604, PC 130,
Azaiba, Sultanate of Oman

info@gaxisintl.com

www.gaxisintl.com

Toll Free: 8000 3000

 [gaxisintl](#)

 [gaxisoman](#)

 [Global Axis Co LLC](#)