

Solar Street Lights

UCG Solar carries various models of street lights including our signature model LYS001. LYS001 is equipped with a 100Wp Poly/Mono solar panels, 12V100Ah battery, a 30W LED light; and a controller system with intelligent chip, capable of working under -20 -70 temperature, and a working time of 10-12 hours per day within 2 raining days. The LYS001 street light comes with a pole of about 6 meters high.



The LYS002 is equipped with 120Wp Poly/Mono solar panels, 12V 150Ah battery; with a light Energy lamp of 35W, and a controller system with an intelligent chip capable of working under -20 -70 temperature, and a working time of 10-12 hours per day within 3 Raining days. This street light is 7 meters high.

The LYS004 model is equipped with 105W-210W Poly/Mono Solar panels, a 130AH-200AH battery, a sodium energy lamp of 35W LED pressure, and a controller system with an intelligent chip that can work under -20 -70 temperature, and a working time of 10-12 hours per day within 2 raining days. The LYS004 street light is 8 meters high.

UCG Solar manufactures various other models of solar street lights. UCG Solar can customize our street lights to fit our clients needs.

UCG Solar Services

Consulting

UCG Solar provides customized consulting services ranging from energy auditing to installation. UCG Solar services the banking industry, telecommunications industry; and the oil and gas industry. Examples of major projects include street lights installation, wind turbine installation on land and water, and stand alone solar powered telecommunication towers. For major projects, we recommend that you contact our cooperate office in the United States prior to purchasing any products to enable our consultants to understand your project requirements.

Our mission frankly is customer satisfaction.

Solar Installation

UCG Solar has highly qualified solar installation technicians that are available to assist you with your solar installation needs.

Manufacturing

UCG Solar is a manufacturer of solar cell phone chargers, pure sine wave solar inverters, solar street lights, wind turbines, telecommunication stand alone towers. In addition, UCG Solar manufactures various kinds of photo voltaic including amorphous panels which we recommend for very warm climates, mono crystal and poly crystal modules (solar panels), solar garden lights, solar water heaters, water controller, and solar water pumps.

Energy Audits

UCG Solar provides energy audits where we conduct a detailed analysis of your current energy consumption in order to design and advise you on the best products to fit your needs.



Solar Products and Services



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About UCG Solar

UCG Solar, a division of **Union Consulting Group, Inc.** (www.unionconsultgroup.com), is an international solar manufacturing company based in the USA. UCG Solar is an internationally registered company and service provider for **UNICEF** – United Nations Children's Fund, **UNFPA** – United Nations Population Fund, and **UNAMID** – African Union/United Nations Hybrid Operation in Darfur.

Lower your consumer energy bills

Depending on oil and gas to power your home or business can be costly. Using solar energy can drastically reduce your monthly energy bills and while helping the environment. Why depend totally on energy providers that can increase your cost for electricity when you can install a solar solution that can reduce your traditional energy consumption by up to 90%.

Reduce air pollution and greenhouse gases

Switching to a cleaner form of energy such as solar energy greatly reduces air pollution and greenhouse gases. By reducing air pollution and greenhouse gases, we can support the global effort to stabilize climate change.

Provide electricity to all

There are several areas around the world that do not have consistent electricity or electricity at all. By leveraging the use of solar energy to provide electricity in locations where it does not currently exist, provides electricity parity to residents and businesses across the world.

Pure Sine Wave Inverters

Unlike other inverters sold in Nigeria, all of the UCG Solar inverters are pure sine wave and not modified inverters, which is a less superior inverter. Our inverters are designed to work with solar and wind systems.

The 3KVA inverters feature a charge controller, overload protection, automatic power change over with a standby switch time of 0.04 minutes, silent and safe; and maintenance free for up to 5 years. We also provide a 6-month warranty, and customers can buy an extended warranty for up to additional 2 years.



Our 5KVA inverters feature automatic power change over with a standby, a switch time of 0.04 minutes over load protection, silent and safe, and maintenance free for 5 years.

UCG Solar also provides a 6-month warranty, and customers can also buy an extended warranty for up to 2 additional years.

Solar Water Heater



UCG solar water heaters consist of heat pipes, a vacuum tube collector, a steel water tank with enamel coating and an aluminum alloy or angle steel support frame with a plastic coating. The condenser of the heat pipe tube is directly inserted into the non-corroding copper protection tube within the water tank. The heat pipe

vacuum tubes collect heat with high efficiency, transforming over 92% of the incoming solar irradiation into heat.

We carry and produce various models of water heaters such as:

- Our LCH series – Integrated and non-pressurized solar water heaters, designed for residential purposes and economical;
- Our LCHT series – Integrated and pressurized solar water heaters, designed to emphasize high performance; and
- Our LCHP series water heaters, designed for commercial and industrial use.

All of our water heater products are rustproof and scale resistant and equipped with a special silicide coating on the crystal steel inner vessel, that can separate water from steel plate; and resistant to corrosion by chlorine ion. These technologies and materials prevent leaking and our solar water heaters have a long life span.

Solar Cell Phone Charger

Our Solar Cell Phone Charger is designed to charge mp3, cameras and virtually all cell phones, by using energy from the sun. Our charger provides you the ability to:

- Store energy on the charger for future use;
- Provide up to 4 hours of charge time;
- Can be used to charge or store energy by using the city grid or natural sunlight;
- Built-in flash light that can be used in case of a power outage.



The Solar Charger is best used in environments that do not have power, constant power outages, or for camping.

Solar Water Pump

To design our **Solar Water Pump**, UCG Solar considered the trouble you undertake to pump water by using gas generators; the noise and health concerns associated with the use of generators and the high cost of gas and diesel to power your water pump.



Therefore, our engineers designed this remarkable product to eliminate the hassle and trouble of water pumping by simply using direct current from natural sunlight to power our solar water pumps.

This equipment is durable, and highly recommended for countries or places with irregularity of water supply from the city government.

Solar Panels

We carry various types of solar panels that are designed with applied and advanced technologies and techniques. Our types of panels include Mono crystalline, Poly crystalline and amorphous and are of a very high quality. Each of these products are manufactured in panels and or laminates. Our laminated photo voltaic (PV) panels are produced to a maximum size of 260W. The cover of our laminated PV panels are made of low-iron tempered glass of high transitivity, especially after treated by reflection reduction. Whereas, the back of our laminated PV panels is encapsulated by EVA so that it can resist the corrosion of humidity and sea water.



Our solar panels can be used for solar home systems or stand alone systems, and are used in combination with solar charge/discharge controller to regulate the charge of batteries. All panels come with a Warranty of up to 25 Years.