

## What is Solar home system?

The solar home lighting and power system is specially designed for residential areas where there is no electricity or with weak power supply. It is a kind of simple, reliable, and low cost solar lighting and power supply system. It combines of high efficiency solar panel, intelligent charging controller, high capacity lead-acid batteries or Lithium battery, LED lights and multifunctional output. Integrated design of the controller controls the charging and discharging function of the batteries. Construction of the system is simple, exquisite, easy for installation and with long lifetime. These power system can be used to supply power for led lamp, cellphone charging, fan, TV, radio, computer, camera and other small electric equipments.

## What does Solar home system work?

The system comprises a solar cell panel, a storage battery, a main controller, a DC/AC inversion control part and a lighting load, and also comprises a DC/DC conversion control part and a voltage sampling part. The solar cell panel is connected to the storage battery by means of a forward-biased diode and a relay switch. The lighting load is connected to a mains supply standby part by means of the switch. The main controller comprises an over-charging protection circuit, an over-discharging protection circuit, a load over-current protection circuit, an anti-reverse-charging protection circuit display circuit, and a temperature compensation circuit. The system is flexible in configuration, safe and stable.

## Where is Solar home system used?

Quite a number of households in the world still lack electricity, especially in the sub-Saharan African continent. However, the abundance of solar irradiation in tropical Africa can be advantageously exploited to serve the inhabitants in this region, particularly the extremely low-income earners who not only have access to very inadequate power supply but also experience much discomfort in terms of poor ventilation and heat-triggered infections. we focuses on developing a small household-sized solar power-based electric energy supply system. The overall intent is to provide the rural dwellers with a cost-effective way of powering essential devices for basic economic living.

The lightning system is ideal in Africa. The solar home system has already worked successfully in Cambodia where over 220,000 lives have been positively impacted.

An estimated 600 million households in Africa have no access to electricity and are forced to use biomass for household cooking and kerosene for lighting.

### NAIROBI,

Three years ago when he wanted to buy four 50MW solar security lamps, Albert Kyalo, a homeowner living in Kitengela, found the costs so exorbitant that he gave up.

Last Friday, however, Kyalo was a happy man after buying our two home lighting systems at pocket-friendly prices that he never thought he would.

"I had even given up on solar lighting but I passed by an electronic shop in the suburb, and saw one of the lights on display. When I inquired about the price, they were less than half of what I had been told three years ago," he recounted on Tuesday.

"I bought the solar home lights, which come with 3 lights, an inbuilt battery and a small solar panel. I fitted them on my house at the weekend and would buy two more next month," he said.

Kyalo is among an increasing number of Kenyans who are turning to affordable solar lights to cut power costs or deal with blackouts.

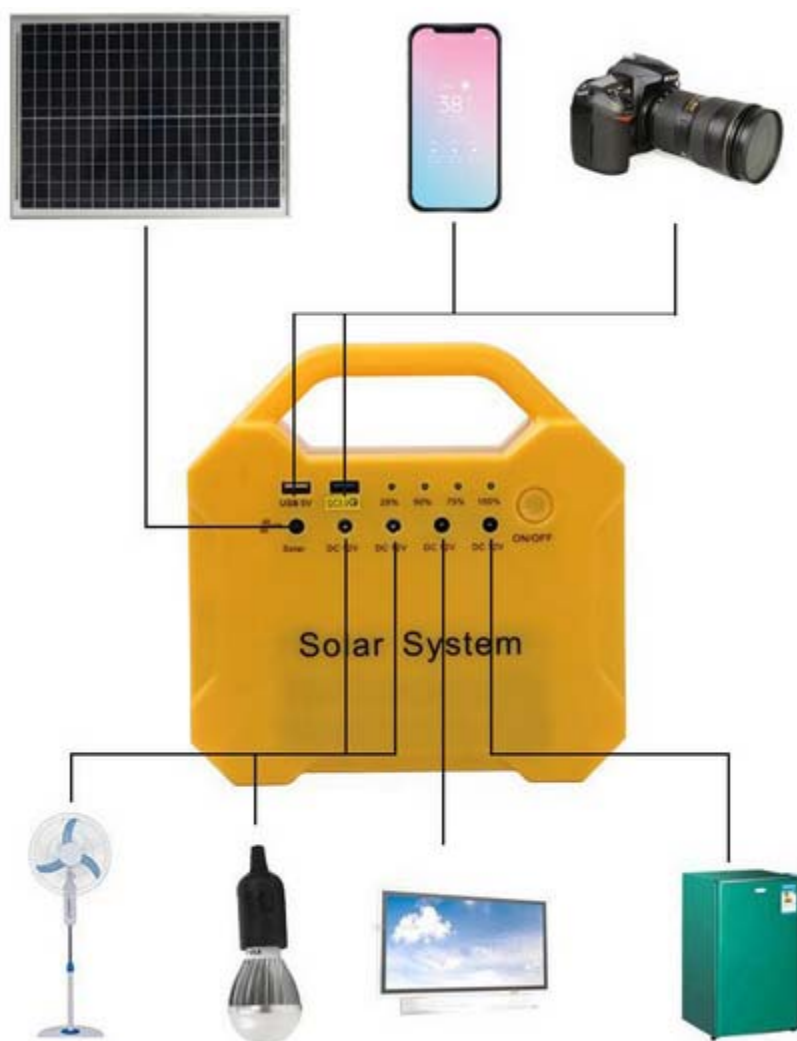
And they have the perfect solar solutions which are pocket-friendly, innovative and easy-to-install.

We are slowly taking over the Kenyan solar market. From standalone solar panels, to solar torches, bulbs, radios, lights, the products are readily available across the east African nation, including in market centers in villages.

## What is Solar home system made?

A solar-powered household lighting allowing convenient configuration of an LED light bulb, comprising a solar pane , a converter box, and the LED light bulb. The solar panel is connected to the converter box via a power supply cable, the converter box is connected to multiple LED light bulb power supply interfaces via the power supply cable, and the LED light bulb power supply interfaces are connected to the LED light. The LED light bulb has arranged on a surface thereof a power switch, and has arranged within the interior a circuit board and a battery. The circuit board comprises a voltage regulator part, a charge management part, and a voltage-booster part. When in use, solar power is passed through the circuit board for voltage regulation, power source charging, and voltage boosting, thus converted into electric energy for the LED, while illumination is provided by turning on the power switch. The lighting is applicable in household system illumination, also in outdoor travelling, camping, and public place emergency lighting, is simple to use, convenient to carry, safe, environmentally friendly, and energy-conserving, and facilitates promotion.

## What appliances our Solar home system support?



## Product application:

