



# Deng solar ghana

Deng solar ghana

These are the simplest of solar-electric systems, with the fewest components (basically the PV array and the load). Because they don't have batteries and are not hooked up to the utility, they only power the loads when the sun is shining. This means that they are only appropriate for a few select applications, notably water pumping and ventilation--when the sun shines, the Fan, Fridge or Pump runs.

Although they are most common in remote locations without utility service, off-grid solar-electric systems can work anywhere. These systems operate independently from the grid to provide all of a household's electricity. These systems require a battery bank to store the solar electricity for use during nighttime or cloudy weather, a charge controller to protect the battery bank from overcharge, an inverter to convert the DC PV array power to AC for use with AC household appliances, and all the required disconnects, monitoring, and associated electrical safety gear.

Our dealers are hand-picked for their experience and professionalism. Before an office is ever allowed to operate, all technicians and engineers working in that office must undergo a thorough training program, followed by meticulous examinations to achieve certifications, at the DSTC Solar Training Center, in Accra.

Our network is increasing daily and new dealers are being added in Togo, Benin, Liberia and Sierra Leone. Our goal is to be able to provide quality products and immediate service in all parts of Ghana and throughout West Africa.

Deng's solution is solar power. The company sells a range of photovoltaic (PV) systems, starting with a standalone version for the home costing US\$500 and larger versions for schools and hospitals costing up to US\$1500.

Although 49% of households in Ghana have access to mains electricity, the generation capacity is inadequate, resulting in many unplanned power cuts. Most of those without electricity live in the rural areas. Here the main income is from seasonal agriculture, and many people are cautious about connecting to the mains were it to arrive, for fear that they will run up a bill that they cannot afford to pay.

Ghana is ideally placed to make use of solar photovoltaics (PV), especially in rural areas, but there is a need to rapidly increase the number of people trained in installation and maintenance. Deng, an established engineering business in Accra, supplies solar PV systems both directly and through a dealer network, bringing more reliable power to those already connected to the grid and those in rural areas currently off grid. It uses high quality components to minimise the risk of faults, and ensures that all technicians and dealers are fully trained in installation and maintenance.

Photovoltaic (PV) modules generate electricity from sunlight. Used with rechargeable batteries to store



## Deng solar ghana

electricity, they can provide an independent dc electricity supply system that can be used both day and night. A PV system incorporates a charge controller, which prevents the battery from being over-charged or deep-discharged, and may also include an inverter to convert dc power to ac, thus allowing the use of ac appliances.

Deng sells and installs several different types of PV system, but the bulk of its PV business is the supply of standalone systems. Deng also provides PV systems to supply emergency backup power during frequent mains failures. These systems are sold mainly in and around Accra, to businesses, public bodies, NGOs and private homes. The largest installed to date is a 9.2 kWp grid backup at the central courts in Accra, where the use of PV maintains lighting and thus enables court business to keep going during power cuts.

Contact us for free full report

Web: <https://www.sumthingtasty.co.za/contact-us/>

Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

WhatsApp: 8613816583346

