

Product Focus

Solar Refrigeration Deployment in Nigeria

A Nigerian hospital has received solar vaccine fridges that provide storage and distribution of vital vaccinations to remote areas. Bright Light Solar, an international manufacturer delivering off-grid solutions, provides two standard off-grid solar electric packages. In compliance with the World Health Organization's specifications, the Solar Vaccine Refrigerator was delivered to a local hospital in the most populous African country's capital, Abuja.

The company custom designed and tested in house with the results showing a highly efficient and specifically designed-to-operate fridge using solar power. The fridge provides 35 liters of vaccine storage capacity and four liters for frozen icepacks. The need for this product has been heightened as more solar refrigerators have been used for blood storage.

Bright Light Solar's product is supplied as a part of a "plug and play" solar power system, meaning that it may just be plugged into the power socket on the company's solar power supply pack, then connect the panels, and the system is ready for use.

Solar technology is used to generate electricity which is fed via a state-of-the-art microprocessor controlled charge regulator into a specially made battery bank. The battery bank is charged up during daylight hours storing the energy generated and provides 24-hour electricity to the refrigerator.

The "plug and play" Solar Refrigerator kit has the following specifications:

- REF: 1104-263
- Two ultra-heavy duty sealed batteries (200Ah total) ensures system reliability; uses standard 12V supply
- Supplied with 130 watt solar panels
- Support frame and pole mountings included
- Morningstar Prostar charge controller ensures system reliability and performance



Solar fridges helping locals store medical vaccines

- Kit arrives complete with all components required for easy installation, including lead-acid battery, cables, system controller, solar panel & mounting accessories (both roof & pole mountings)
- Shipping Weight approx. 130 kg-special delivery

Bright Light Solar currently stock two types of fridges;

- Solar Vaccine Refrigerator PS40 with Solar Power Supply (kit) REF: 1104-538
- Provides 35 liters of vaccine storage capacity
- 4 liters for frozen icepack.
- Solar Vaccine Refrigerator PS65 with Solar Power Supply (kit) REF: 1104-262
- Provides 65 liters of vaccine storage
- 16 liters for frozen ice pack