OFF-GRID PRODUCTIVE USE OF ENERGY (PUE)
PRODUCT CATALOGUE
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BACKGROUND

The USAID-Papua New Guinea Electrification Partnership Activity (USAID-PEP) is a five-year project in partnership with the Papua New Guinea (PNG) government to contribute significantly to achieving the goal of connecting 70 percent of PNG’s population to electricity by 2030. USAID-PEP is part of the broader PNG Electrification Partnership along with Australia, Japan and New Zealand.

To accomplish this goal, USAID-PEP focuses on facilitating at least 220,000 new off-grid household electricity connections. Gender specific targets include supporting at least 10 women-owned businesses and ensuring at least 10,000 women benefit from access to electricity from mini-grids. USAID-PEP’s diverse consortium, led by RTI International, comprises utility, off-grid, regulatory, private investment, and community engagement experts.

The program team’s work is delivered under 4 objectives:

1. Demonstrate measurable increase in PNG Power Limited’s financial viability and operational efficiency
2. Develop viable off-grid electrification models
3. Demonstrate measurable improvement in PNG’s energy regulator
4. Catalyse private investment for energy projects

USAID-PEP provides technical assistance to private sector companies, agriculture cooperatives, agribusinesses, and government stakeholders to increase the uptake of off-grid energy solutions, such as stand-alone solar products, mini-grids, and productive use of energy technologies.
INTRODUCTION

WHAT IS OFF-GRID PRODUCTIVE USE OF ENERGY (PUE)?
For the purposes of this catalogue, off-grid PUE refers to uses of energy in off-grid areas that increase income and/or productivity. In many rural areas, agricultural production is the main pathway for economic development. For rural farmers in PNG, who predominantly live in off-grid areas, access to equipment, fuel, and electricity for farm operations, crop processing, and food storage is limited and costly.

OBJECTIVES
The main objective of this catalogue is to increase awareness and uptake of the off-grid PUE products that are available in PNG. The catalogue provides stakeholders (including manufacturers, suppliers, non-government and community organizations, and government policymakers) with insight into PUE products and innovations.

CONTENTS
This catalogue includes technical and financial information for a range of PUE technologies, with a focus on the economic activities of agriculture, fisheries, livestock, poultry, and MSMEs (micro, small, and medium enterprises). The catalogue presents the following information:

- PUE product details and specifications
- Manufacturer, distributor, and supplier channels

TARGET AUDIENCE
A wide range of participants in the off-grid energy sector can leverage insights from the catalogue to inform their decisions, including government policymakers, private sector practitioners, non-government and community organizations, investors, financial institutions, and end users.
CRITERIA FOR SELECTION OF PUE EQUIPMENT

The catalogue’s scope is limited to off-grid PUE products for agriculture, fisheries, livestock, poultry, and MSMEs – particularly those powered by photovoltaic (PV) solar and thermal energy.

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**Solar Tunnel Cocoa Dryer**

**Description**
The GREEN Solar Tunnel Cocoa Dryer is an efficient drying mechanism for drying the bulk of cocoa beans at a moderate air temperature. The Solar Tunnel Cocoa Dryer is an ideal alternative to conventional kiln drying, which is the major cause for low-quality cocoa due to smoke taint.

**Capacity**
1 - 1.5 tonnes of cocoa beans

**Components**
- Greenhouse structure with hot galvanized framework, surrounded by polycarbonate on all sides
- Anti-UV and anti-condensation with transmittance ≥ 85%
- Trolley size 1860 * 1500 * 800 mm
- Trolleys endowed with trays
- 30W solar DC fan

**Warranty**
2 years

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**Solar Portable Box Cocoa Dryer**

**Description**
The GREEN Solar Portable Box Cocoa Dryer is intended for smallholder rural farmers. This dryer is ideal for high-quality natural preservation. The components include a hot air manifold, 16-piece material trays, fans, dryer cabinet, and a solar air collector which tilts to accommodate any latitude or season. The entire dryer can swivel on a fixed table so the operator can rotate units to track the sun. The system is stable and efficient without debugging, the angle of the solar air collector and solar panel can be adjusted, and the system is easy to install and operate.

**Capacity**
40kg – 60kg of cocoa beans

**Components**
1. 100W solar panel
2. 12V solar DC fans
3. Battery – deep cycle automotive type (optional)
4. Quantity of Trays: 16PCS
5. Solar Collector: corrugated and painted steel with aluminum frame
6. Adjustable angle range: 30 to 40 degrees

**Warranty**
2 years

Contact for quotes and further information
GREEN Ltd. | Mr. Bernard George
PO Box 1243, Section 405, Allotment 4, Port Moresby, National Capital District, PNG
Email: bernard@green.com.pg
Phone: +675-3250325
www.green.com.pg

---

Contact for quotes and further information
GREEN Ltd. | Mr. Bernard George
PO Box 1243, Section 405, Allotment 4, Port Moresby, National Capital District, PNG
Email: bernard@green.com.pg
Phone: +675-3250325
www.green.com.pg

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**Table of contents**
Solar Cocoa Pod Breaker

Description
The GREEN Solar Cocoa Pod Breaker is a machine that uses automation to cut fresh cocoa pods and screen the cocoa beans. Its components include a husk collector, seed collector, husk loader, husk breaking knife, and screening machine. The machine is designed to cut cocoa beans into two halves and separate the cocoa pods and beans using a sieve. It is easy to use and ensures a high level of productivity and quality.

Capacity/Specifications

Components
- 48V 750W brushless DC (BLDC) motor with control panel
- Husk Collector: sheet thickness 3mm
- Material: grade 316 stainless steel
- Weight: 12.5kg
- 500W solar panel with 12V/200Ah battery backup
- 1.5kVA off-grid pure sine wave inverter with maximum power point tracking (MPPT) controller

Warranty
2 Years

Manufacturer and Distributor
GREEN Ltd. | Mr. Bernard George
PO Box 1243, Section 405, Allotment 4, Port Moresby, National Capital District, PNG
Email: bernard@green.com.pg
Phone: +675-3250325
www.green.com.pg

Solar Coffee Pulping Machine

Description
The GREEN Solar Coffee Pulping Machine is a portable, energy-efficient machine that is powered 100% by solar energy. The machine removes coffee pulp and mucilage, eliminating the need for fermentation and further processing. The machine is environmentally friendly, requires less maintenance, and enhances the livelihood and economic growth of smallholder coffee farmers.

Capacity/Specifications

Components
- Input capacity of ripe coffee cherry fruits: 800 - 1000 Kg/hr
- Net Weight: 120 Kg
- Gross Weight: 200 Kg
- Size: 1300 (H) * 530 (W) * 740(L)
- 500W solar panel with 12V/200Ah battery backup
- 1.5 kVA off-grid pure sine wave inverter with MPPT controller
- Working Hours: 6 - 8 hrs

Warranty
2 Years

Manufacturer and Distributor
GREEN Ltd. | Mr. Bernard George
PO Box 1243, Section 405, Allotment 4, Port Moresby, National Capital District, PNG
Email: bernard@green.com.pg
Phone: +675-3250325
www.green.com.pg
**Solar Coconut/Virgin Oil Extractor**

**Manufacturer and Distributor**
GREEN Ltd. | Mr. Bernard George
PO Box 1243, Section 405, Allotment 4, Port Moresby, National Capital District, PNG
Email: bernard@green.com.pg
Phone: +675-3250325
www.green.com.pg

**Description**
GREEN’s Solar Coconut/Virgin Oil Extractor is an automated, high-quality production machine for coconut oil extraction. It is solar powered and designed to operate smoothly and effectively. The machine has undergone various tests to meet quality standards and compliance. It ensures healthy oil extraction using high-quality food-grade materials and uses cold and hot squeezing processes to produce pure coconut oil enriched with nutrients. The machine operates without vibration or noise.

**Capacity/Specifications**
- 1000W Solar Panel with 12V/100Ah battery backup for 3 - 6 hrs
- 1kVa off-grid pure sine wave inverter with MPPT controller
- Net Weight: 16Kg
- Gross Weight: 20 Kg
- 100W BLDC Motor
- 450W Heater max 600W (starting load)
- 5 Amps plug @ 230V
- Temperature of oil extracted <50ºC
- Output Cake Temperature >150ºC

**Warranty**
2 Years

**Solar Peanut Butter Maker**

**Manufacturer and Distributor**
GREEN Ltd. | Mr. Bernard George
PO Box 1243, Section 405, Allotment 4, Port Moresby, National Capital District, PNG
Email: bernard@green.com.pg
Phone: +675-3250325
www.green.com.pg

**Description**
GREEN’s Solar Peanut Breaker is a solar-powered machine designed to remove hard shells from peanuts and obtain perfect kernels. The machine is made of high-quality steel and has a stainless steel shelling chamber. It is easy to operate and has high shelling efficiency (less than 5% broken rate). The machine can remove the outer thin skin of peanuts and break them into two parts, which enhances the taste.

**Capacity/Specifications**
- Input Capacity: 20 - 25 kg/hr - Production Capacity: 98%
- Solar Panel: 2.5 KW with battery
- Grade: SS 304
- Input Capacity: 20 - 25 kg
- Production Capacity: 98%
- Breaking Rate: < 5%
- Cleaning Rate: ≥ 99%

**Warranty**
2 Years
Hammer Mill

Manufacturer & Distributor

Contact for quotes and further information
Factory address: Unit 5, Bethsaida Gardens, Nderi Road, Kikuyu Town, Kiambu County, Kenya
Phone: +254-79-3537669 | Phone: 254-70-3685666
Email: psskenya@productivesolarsolutions.com
www.productivesolarsolutions.com

Description
A multi-feedstock mill capable of processing a range of cereals and dried tubers to fine or coarse flour for human or animal consumption. It is commonly used to process maize, cassava, sorghum, and millet.
The machine is optimized for efficiency, durability, and safety. Offered with brushless DC motors.

Capacity/Specifications

DC 48V
- Motor Rating [kW] = 1.3
- Production rate [kg/hr] = 55
- Efficiency [kg/kWh] = 47

DC BLDC
- Motor Rating [kW] = 1.8
- Production rate [kg/hr] = 65
- Efficiency [kg/kWh] = 42

AC – Phase 1
- Motor Rating [kW] = 2.2
- Production rate [kg/hr] = 65
- Efficiency [kg/kWh] = 35

AC – Phase 3
- Motor Rating [kW] = 2.2
- Production rate [kg/hr] = 70
- Efficiency [kg/kWh] = 38

Dimensions: 670 x 360 x 700mm
- Approx. net weight: 40kg
- Average daily output of maize flour on solar:
  - 500W PV – 100kg
  - 1000W PV – 200kg
  - 1500W PV – 300kg

Warranty
2 Years
Rice Mill / Maize Huller

Description
The PSS rice mill / maize huller can produce brown or white rice and can remove the hard outer shell from maize.

The machine incorporates an extraction fan to separate husk and chaff and has an easily adjusted pressure dial to increase or decrease the degree of milling.

Offered with brushless DC or AC motors.

Capacity/Specifications
- 500W Solar PV Module
- 1000W Solar PV Module
- 1500W Solar PV Module

Manufacturer & Distributor
Productive Solar Solutions
Contact for quotes and further information
Factory address: Unit 5, Bethsaida Gardens, Nderi Road, Kikuyu Town, Kiambu County, Kenya
Phone: +254-79-3537669 | Phone: 254-70-3685666
Email: psskenya@productivesolarsolutions.com
www.productivesolarsolutions.com

DC 48V
- Motor Rating [kW] = 1.3
- Production rice [kg/hr] = 135
- Production maize [kg/hr] = 120
- Efficiency [kg/kWh] = 115

DC BLDC
- Motor Rating [kW] = 1.8
- Production rice [kg/hr] = 160
- Production maize [kg/hr] = 120 Efficiency [kg/kWh] =115

AC – Phase 1
- Motor Rating [kW] = 2.2
- Production rice [kg/hr] = 160
- Production maize [kg/hr] = 120
- Efficiency [kg/kWh] = 90

AC – Phase 3
- Motor Rating [kW] = 2.2
- Production rice [kg/hr] = 160
- Production maize [kg/hr] = 120
- Efficiency [kg/kWh] =100

Dimensions: 480 x 290 x 925mm
- Approx. net weight: 45kg (with motor)
- Average daily output on solar
- 500W PV – 250kg
- 1000W PV – 500kg
- 1500W PV – 750kg

Warranty
2 Years
Solar Insect Trap

Description
GREEN’s Solar Insect Trapper is a physical pest control device that uses UV lights to attract harmful nocturnal insects in agriculture and allied crops. It’s a fully automatic system that runs on solar power and requires no human interaction on a daily basis. The trapper helps to improve productivity, create a healthy environment, and save manpower required in conventional pest management techniques.

Capacity/Specifications
- Solar Panel: 5W
- Battery: Lithium Battery 11.1V
- 2.6Ah

Warranty
2 Years

Manufacturer and Distributor
GREEN Ltd. | Mr. Bernard George
PO Box 1243, Section 405, Allotment 4, Port Moresby, National Capital District, PNG
Email: bernard@green.com.pg
Phone: +675-3250325
www.green.com.pg

Solar Pesticide Sprayer

Description
The GREEN’s Solar Powered Pesticide Sprayer utilizes stored potential energy and spring force to efficiently and quickly remove pests and improve crop yield, with components including a solar panel, pump, DC motor, battery, pesticide tank, level sensor, and buzzer for low level pesticide alerts, and is an eco-friendly, ergonomic device with no noise or pollution.

Capacity/Specifications
- Tank Capacity: 16 litres
- Solar Panel Nominal Power: 20W
- Motor Voltage: 12V DC
- Maximum Pressure: 0.45 MPa

Warranty
2 Years

Manufacturer and Distributor
GREEN Ltd. | Mr. Bernard George
PO Box 1243, Section 405, Allotment 4, Port Moresby, National Capital District, PNG
Email: bernard@green.com.pg
Phone: +675-3250325
www.green.com.pg
## SFI Solar Water Pump

**Manufacturer**

![Futurepump](#)

Head Office (UK): +44 (0)1986-895253  
[www.futurepump.com](http://www.futurepump.com)

**Description**

Futurepump solar water pumps are intended to be used for irrigation by smallholder farmers. These pumps are designed to draw water from shallow water sources, are robust to mud, dirt, or grit in the water supply and are also portable, with foldable panels for easy, safe transport to and from the field. The Futurepump SF2 surface pump is capable of irrigating 2 acres of land while the SF1 surface water pumps can irrigating 1 acre of land.

**Capacity/Specifications**

- Up to 15m total head
- 7m suction head
- Max flow: 1 litres/sec
- Irrigates up to 2 acres
- 1.25” hose pipes
- 80W (2 x 40W) or 120Wmax (3 x 40W) foldable solar panels
- Horizontal discharge: up to 500m
- Peak system efficiency: 70%

**Warranty**

10 Years

**Distributor**

Contact for quotes and further information  
Solar Solutions | Kina Bank Compound, Cnr Cameron Rd and Waigani Dr, Unit 1, Lot 17, Sect 451, Port Moresby, PNG  
Phone: +675 76267708 / 73529034  
Email: sales@solarsolutionspng.com  
[www.solarsolutionspng.com](http://www.solarsolutionspng.com)

## SF2 Solar Water Pump

**Manufacturer**

![Futurepump](#)

Head Office (UK): +44 (0)1986-895253  
[www.futurepump.com](http://www.futurepump.com)

**Capacity/Specifications**

- Up to 15m total head
- 7m suction head
- Max flow: 0.5 litres/sec
- Irrigates up to 1 acre
- 1” hose pipes
- 40W solar panel
- Horizontal discharge: up to 500m
- Peak system efficiency: 60%

**Warranty**

10 Years

**Distributor**

Contact for quotes and further information  
Solar Solutions | Kina Bank Compound, Cnr Cameron Rd and Waigani Dr, Unit 1, Lot 17, Sect 451, Port Moresby, PNG  
Phone: +675 76267708 / 73529034  
Email: sales@solarsolutionspng.com  
[www.solarsolutionspng.com](http://www.solarsolutionspng.com)
**Solar Pump Submersible**

**Manufacturer**
Feili Pumps  
[www.feiliby.cn](http://www.feiliby.cn)

**Description**
This solar deep well submersible water pump is suitable for rural irrigation and general water supply.

**Capacity**
- Up to 7m suction depth

**Power:**
- DC 48V solar power pump
- 750W solar power pump
- Stainless steel
- Max Flow: 1m³/h
- Brushless dc motor

**Warranty**
1 Year

**Distributor**
Contact for quotes and further information  
Brian Bell Trade Electrical | Brett Cox  
Email: [brett.cox@bbte.com.pg](mailto:brett.cox@bbte.com.pg)  
Phone: +675-325-5411  
[www.brianbell.com.pg](http://www.brianbell.com.pg)

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**Solar Pump Centrifugal**

**Manufacturer**
Feili Pumps  
[www.feiliby.cn](http://www.feiliby.cn)

**Description**
The SCPM centrifugal pumps are ideal for remote areas and can pump up to a depth of 25-800 meters depending on the size of the pump.

**Capacity**
- Max flow: 2-31m³/h (30-520LPM)
- Max depth: 80-180 feet (25-55M)

**Warranty**
2 Years

**Distributor**
Contact for quotes and further information  
Brian Bell Trade Electrical | Brett Cox  
Email: [brett.cox@bbte.com.pg](mailto:brett.cox@bbte.com.pg)  
Phone: +675-325-5411  
[www.brianbell.com.pg](http://www.brianbell.com.pg)

Note: Solar panels, batteries, and accessories for the solar water pumps are sold separately by Brian Bell Trade Electrical.
**Solar Pump Booster**

**Manufacturer**
Feili Pumps  
www.feiliby.cn

**Description**
The SCPM centrifugal pumps are ideal for remote areas and can pump up to a depth of 25-800 meters depending on the size of the pump.

**Capacity**
- Max depth: 80-180 feet (25-55M)

**Warranty**
2 Years

**Distributor**
Contact for quotes and further information  
Brian Bell Trade Electrical | Brett Cox  
Email: brett.cox@bbte.com.pg  
Phone: +675-325-5411  
www.brianbell.com.pg

**Solar Pump Surface Jet**

**Manufacturer**
Feili Pumps  
www.feiliby.cn

**Description**
The solar jet pump is a good choice to transfer water from water tanks to other areas or for irrigation to small farms.

**Capacity**
- Max flow: 2-31m³/h (30-520LPM)  
- Max depth: 80-180 feet (25-55M)

**Warranty**
2 Years

**Distributor**
Contact for quotes and further information  
Brian Bell Trade Electrical | Brett Cox  
Email: brett.cox@bbte.com.pg  
Phone: +675-325-5411  
www.brianbell.com.pg

Note: Solar panels, batteries, and accessories for the solar water pumps are sold separately by Brian Bell Trade Electrical.
Freezer – BR128F

Description
Beier solar fridges and freezers have high-temperature resistance and an energy-efficient design suitable for home and commercial use. They are eco-friendly and can be connected to AC power if needed.

Capacity: 128L
- Input voltage DC12V/24V
- Power consumption 50W
- Product size (mm) 733 (L) * 752 (W) * 805 (H)
- Cooling performance maximum of -22°C
- Optional accessory DC cable and AC/DC adapter
- 110mm polyurethane (PU) insulation wall; CFC free

Warranty
1 Year

Distributor
Contact for quotes and further information
Brian Bell Trade Electrical | Brett Cox
Email: brett.cox@bbte.com.pg
Phone: +675-325-5411
www.brianbell.com.pg

Freezer – BR233F

Description
Beier solar fridges and freezers have high-temperature resistance and an energy-efficient design suitable for home and commercial use. They are eco-friendly and can be connected to AC power if needed.

Capacity: 233L
- Input voltage DC12V/24V
- Power consumption 63W
- Product size (mm) 1213 (L) * 736 (W) * 814 (H)
- Cooling performance maximum of -22°C
- Optional accessory DC cable and AC/DC adapter
- 110mm polyurethane (PU) insulation wall; CFC free

Warranty
1 Year

Distributor
Contact for quotes and further information
Brian Bell Trade Electrical | Brett Cox
Email: brett.cox@bbte.com.pg
Phone: +675-325-5411
www.brianbell.com.pg
### Freezer – BR303F

**Manufacturer**
BEIER  
[www.sy-beier.com](http://www.sy-beier.com)

**Description**
Beier solar fridges and freezers have high-temperature resistance and an energy-efficient design suitable for home and commercial use. They are eco-friendly and can be connected to AC power if needed.

**Capacity/Specifications:**
- Capacity – 303L
- Input voltage DC12V/24V
- Power consumption 66W
- Product size (mm) 1213 (L) * 736 (W) * 965 (H)
- Cooling performance maximum of -22°C
- DC cable, AC/DC adaptor (optional)
- 110mm polyurethane (PU) insulation wall; CFC free

**Warranty**
1 Year

**Distributor**
Contact for quotes and further information  
Brian Bell Trade Electrical | Brett Cox  
Email: brett.cox@bbte.com.pg  
Phone: +675-325-5411  
[www.brianbell.com.pg](http://www.brianbell.com.pg)

### Fridge – BCD118

**Manufacturer**
BEIER  
[www.sy-beier.com](http://www.sy-beier.com)

**Description**
The Beier range of solar fridges and freezers come with a high-temperature resistance and energy-saving design, suitable for both home and commercial use. They are eco-friendly and can be connected to AC power if needed.

**Capacity/Specifications:**
- 118L, 76L fridge, 42L freezer
- Input voltage DC12V/24V
- Power consumption 72W
- Product size (mm) 470(L)*475(W)*1165(H)
- Cooling performance Max-18°C
- DC cable, AC/DC adaptor (optional)
- Insulation 60mm

**Warranty**
1 Year

**Distributor**
Contact for quotes and further information  
Brian Bell Trade Electrical | Brett Cox  
Email: brett.cox@bbte.com.pg  
Phone: +675-325-5411  
[www.brianbell.com.pg](http://www.brianbell.com.pg)
Fridge – BCD198

Manufacturer
BEIER
www.sy-beier.com

Description
The Beier range of solar fridges and freezers come with a high-temperature resistance and energy-saving design, suitable for both home and commercial use. They are eco-friendly and can be connected to AC power if needed.

Capacity/Specifications:
198L, 98L fridge, 80L freezer
- Input voltage DC12V/24V
- Power consumption 80W
- Product size (mm) 500(L)*530(W)*1580(H)
- Cooling performance Max-18°C
- DC cable, AC/DC adaptor (optional)
- Insulation 60mm

Warranty
1 Year

Distributor
Contact for quotes and further information
Brian Bell Trade Electrical | Brett Cox
Email: brett.cox@bbte.com.pg
Phone: +675-325-5411
www.brianbell.com.pg

Fridge – BR208

Manufacturer
BEIER
www.sy-beier.com

Description
The Beier range of solar fridges and freezers come with a high-temperature resistance and energy-saving design, suitable for both home and commercial use. They are eco-friendly and can be connected to AC power if needed.

Capacity/Specifications:
198L, 98L fridge, 80L freezer
- Input voltage DC12V/24V
- Power consumption 80W
- Product size (mm) 500(L)*530(W)*1580(H)
- Cooling performance Max-18°C
- DC cable, AC/DC adaptor (optional)
- Insulation 60mm

Warranty
1 Year

Distributor
Contact for quotes and further information
Brian Bell Trade Electrical | Brett Cox
Email: brett.cox@bbte.com.pg
Phone: +675-325-5411
www.brianbell.com.pg
Koolhome 158L Solar Freezers

Manufacturer

Koolboks
www.koolboks.com

Description

The Koohome Solar Chest freezer/refrigerator is designed to provide years of convenient and efficient operations. The design is optimized for energy savings with an efficient DC compressor, thick insulation, and thermal energy storage using phase change materials (PCM).

Capacity/Specifications

- Capacity: 158L
- Panels: 2 x 320Wp
- Battery: Lithium Ion 30Ah pedestal battery
- Ice Battery: 2 x Ice Batteries
- Insulation Thickness: 100mm
- Colour: white
- Moveable Wheels: Yes
- Lock & Key: Yes
- Gross weight: 40kg
- Machine dimension: 85×63.5×84.5cm
- Voltage/Frequency: 12V/24V
- Rated Power: 86W
- Power consumption: 0.9KW/24
- Dual 5V USB charging port with 2 bulb lights

Warranty

3 Years

Distributor

Contact for quotes and further information
Solar Solutions | Kina Bank Compound, Cnr Cameron Rd and Waigani Dr, Unit 1, Lot 17, Sect 451, Port Moresby, PNG
Phone: +675 76267708 / 73529034
Email: sales@solarsolutionspng.com
www.solarsolutionspng.com
GoSun Chillest Solar Powered Cooler

Manufacturer

gosun

5151 Fischer Place, Cincinnati, OH 45217, USA
Email: support@gosun.co
Phone: +1-888-868-6154
www.gosun.co

Description

The GoSun Chillest is a portable fridge that can cool food and drinks with electricity from 12V, AC or Solar. The cooler has a 45 Liter Dual Zone capacity and can control temperatures in either zone with a range from -4°F to 68°F (-20°C to 20°C). The built-in telescoping handle and large all-terrain wheels make it easy to move around, and it can be powered by any 12V source like a boat, car, truck or RV, as well as external Power Banks or GoSun’s Solar Panels. The Chillest can also make its own ice and keep all snacks dry and organized.

Capacity/Specifications

- Weight: 50.6
- Dimensions: 30” x 20” x 22”
- Capacity: 45L
- Max temp: -4°F to 68°F (-20°C to 20°C)
- °F Insulation: R-10 Closed Cell Foam
- Compressor
- DC Brushless (runs on 12V or 24Vdc), draws 45-55 Watts
- Power Input: 12V 5A
- Ports: Solar Input USB-A (5V/1A)
- Works under clouds
- Works at night

Capacity/Specifications (cont.)

- Power source: Built-In Battery Runtime: up to 10 hours, wide range based on several factors

Comes with:

- Solar Cooler
- 87wh integrated lithium ion battery
- AC Adapter
- 12 Volt Power Cord
- Tie Downs
- Cutting Board
- Bottle Opener
- Waste Bag Hooks
- Mount

Multi-purpose suitable for any conditions

- Temperature control (Cooling, Chilling, Frozen) on mobile phone via Bluetooth or manually
- Simultaneously charges mobile phones, laptops or power lights
- Rechargeable battery (powerbank) via solar panels, normal AC or vehicle AC
- Battery (LiFePO4) lasts more than 10 hours when fully charged

Warranty

3 Years

Distributor

Contact for quotes and further information
Detterrol Street, Section 98, Allotment 06 Gordons, NCD
Mobile: (+675) 7912 2925
WhatsApp: (+675) 7610 0221
Email: coenergypng@gmail.com
Facebook: www.facebook.com/coen7777/
LinkedIn: www.linkedin.com/company/coenergy-papua-new-guinea/about/

FRIDGES AND FREEZERS

Table of contents
Koolhome 208L Solar Freezers

Manufacturer

Koolboks
www.koolboks.com

Description
The Koolhome Solar Chest freezers/refrigerators are designed to provide years of convenient and efficient operations. The design is optimized for energy savings with an efficient DC compressor, thick insulation, and thermal energy storage using phase change materials (PCM).

Capacity/Specifications
- Capacity: 208L
- Panels: 2 x 320Wp
- Battery: Lithium Ion 30Ah pedestal battery
- Ice Battery: 4 x Ice Batteries
- Insulation Thickness: 100mm
- Colour: white
- Moveable Wheels
- Lock & Key
- Gross weight: 63kg
- Machine dimension: 1100×635×845mm
- Voltage/Frequency: 12V/24V
- Rated Power: 100W
- Dual 5V USB charging port with 2 bulb lights

Warranty
3 Years

Distributor

Contact for quotes and further information
Solar Solutions | Kina Bank Compound, Cnr Cameron Rd and Waigani Dr, Unit 1, Lot 17, Sect 451, Port Moresby, PNG
Phone: +675 76267708 / 73529034 | Email: sales@solarsolutionspng.com | www.solarsolutionspng.com

Koolhome 538L Solar Freezers

Manufacturer

Koolboks
www.koolboks.com

Capacity/Specifications
- Capacity: 538L
- Panels: 3 x 320Wp
- Battery: Lithium Ion 90Ah pedestal battery
- Ice Battery: 5 x Ice Batteries
- Insulation Thickness: 100mm
- Colour: white
- Moveable Wheels
- Lock & Key
- Gross weight: 70kg
- Machine dimension: 1540×675×845mm
- Voltage/Frequency: 12V/24V
- Rated Power: 120W
- Dual 5V USB charging port with 2 bulb lights
- 3 years

Warranty
3 Years
Koolhome 128L Combo Fridge/Freezer

**Description**
The Koolhome Combo Fridge/Freezer product runs on sun and water. Instead of batteries, it stores solar power in ice and has an A++ class superior insulation quality. It maintains a suitable temperature for up to 48 hours with limited sunlight and operates at temperatures up to 43°.

**Capacity/Specifications**
- 123L Capacity
- 1 x 275W Panel w/ 10m cables
- 12V/100Ah Integrated Batteries
- 10 hours Charging Time
- 24hrs Cooling
- Non-reliance on Power Supply

**Manufacturer**
Koolboks
[www.koolboks.com](http://www.koolboks.com)

**Warranty**
3 Years

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Solar Bag Ice Maker

**Manufacturer and Distributor**
Brian Bell Trade Electrical | Brett Cox
Contact for quotes and further information
Email: brett.cox@bbte.com.pg
Phone: +675-325-5411
[www.brianbell.com.pg](http://www.brianbell.com.pg)

**Description**
This solar bag-ice maker is specifically designed for off-grid, diesel grid and intermittent grid applications. Suitable for preservation of agriculture products, food, medicine, and vaccines.

**Capacity**
- 198 Litre
- 12 hours Solar System - 30KG-35KG
- 24 hours Solar System - 60KG-70KG

**Warranty**
2 Year

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**Table of contents**
Solar Block Ice Maker

Description
Brian Bell Trade Electrical’s solar ice maker is specifically designed for off-grid, diesel grid and intermittent grid applications. Suitable for preservation of agriculture products, food, medicine, and vaccines.

Capacity/Specifications
- Production capacity: 1000Kg per day
- Ice moulds: 5kg, 10kg, 15kg, 20kg
- Weight: 900kg
- Dimensions: 2900mm*1720mm*1200mm

Warranty
2 Year

Manufacturer and Distributor
Contact for quotes and further information
Brian Bell Trade Electrical | Brett Cox
Email: brett.cox@bbte.com.pg
Phone: +675-325-5411
www.brianbell.com.pg
Aldelano Solar WaterMaker

Description
The Aldelano Solar WaterMaker is an atmospheric water generator that can be powered solely by the sun or the grid. This freshwater generator pulls moisture from the air to produce clean drinking water.

For the off-grid model, the solar panels not only power the Aldelano Solar WaterMaker during the day but also charge the battery. This battery lasts up to 15 hours before needing a recharge. With only heat, moisture, and sunlight this water generator, depending on the model, creates 30 gallons to 1000 gallons of water each day and up to 2,300 lbs. of ice.

Aldelano Solar Solutions’ solar air to water technology has the power to bring clean drinking water to areas of the world without access to other solutions such as wells or sanitary water systems. The Aldelano Solar WaterMaker is a freshwater generator that can keep women and girls in third world countries from walking miles for water each day and aid in the elimination of water-borne diseases in local communities.

Manufacturer
Contact:
Phone: 1-909-861-3970 (USA)
Phone: 1-855-765-7269 (USA toll free)
Phone: 234-800-2533-5266 (Nigeria toll free)
Email: www.aldelanosolarsolutions.com

Distributor
Samlvan Investments
PO Box 3144, Lae Morobe Province Papua New Guinea Lae
Office: Suite # 5, Post Office Corporate Suite, Post Office Building, #3rd Street, Top Town Lae. Port Moresby
Office: Room 3, Badili Tribes Commercial Complex, Scratch Road Badili, Port Moresby NCD.
Email: samivainvest@gmail.com
Email: samivansolarsolutions@gmail.com

Capacity/Specifications
Production Capacity
- Models range from 30 to 1000 gallons per day*
- *In ideal conditions of 80°F (26.7°C) and 80% relative humidity

Operating Conditions:
- Temperature: 60° – 120° F (15.5° – 49°C)
- Relative Humidity: 60% – 100%

*please note that water production is greatest in higher temperatures and humidity

Dimensions:
30gal WaterMaker
- Dimensions: 6.5ft x 4.3ft x 4.8ft
- PowerStation Dimensions: 5.7ft x 4.5ft x 5.3ft
- Weight: 5,900lbs (total including PowerStation and panels)
Aldelano Solar Water Maker (cont.)

Capacity/Specifications (cont.)

50gal WaterMaker
- Dimensions: 6.5ft x 4.3ft x 4.8ft
- PowerStation Dimensions: 5.7ft x 4.5ft x 5.3ft
- Weight: 5,900lbs (total including PowerStation and panels)

375gal WaterMaker
- Dimensions: 20ft x 8ft x 8.5ft
- PowerStation Dimensions: 20ft x 8ft x 8.5ft
- Weight: 80,000lbs (total including PowerStation and panels)

500gal WaterMaker
- Dimensions: 20ft x 8ft x 8.5ft
- PowerStation Dimensions: 20ft x 8ft x 8.5ft
- Weight: 43,000 lbs (total including PowerStation and panels)

1000gal WaterMaker
- Dimensions: 40ft x 8ft x 9.5ft
- PowerStation Dimensions: (2) 20ft x 8ft x 8.5ft containers
- Weight: 90,000lbs (total including PowerStation and panels)

*Dimensions are approximate

Aldelano Solar ColdBox

Manufacturer

Contact:
- Phone: 1-909-861-3970 (USA)
- Phone: 1-855-765-7269 (USA toll free)
- Phone: 234-800-2533-5266 (Nigeria toll free)
- Email: www.aldelanosolarsolutions.com

Distributor

Samlvan Investments
PO Box 3144, Lae Morobe Province Papua New Guinea Lae Office: Suite # 5, Post Office Corporate Suite, Post Office Building, #3rd Street, Top Town Lae. Port Moresby Office: Room 3, Badili Tribes Commercial Complex, Scratch Road Badili, Port Moresby NCD.
- Email: samivaninvest@gmail.com
- Email: samivansolarsolutions@gmail.com

Description

The Aldelano Solar ColdBox is an industrial-grade, portable, solar-powered cold storage mini-warehouse that provides a completely renewable power source, offering both refrigeration and freezing capacity.
Aldelano Solar ColdBox (cont.)

Description (cont.)

Ideal for remote locations and with virtually no operating costs, the Aldelano Solar ColdBox is deliverable virtually anywhere. Installation is easy and simple. The off-grid box is wired and ready to run, allowing you to take solar-powered refrigeration anywhere in the world. Simply set up the solar panels to enjoy harnessing the solar power.

The solar-powered refrigerated container has the power to fight food waste while providing cold storage for vaccines, blood, or medicine all through commercial cold storage.

Off-grid refrigeration can be valuable for humanitarian organizations and governments. Aldelano Solar Solutions’ industrial refrigerated containers provide large-scale solar resources for farming, emergency aid, refugee camps, and more. Solar refrigeration allows food and medicines to maintain FDA regulations when the power grid is not stable or available.

Capacity/Specifications (cont.)

BackPack:
- Solar powered refrigeration equipment paired to your existing insulated container or cold room
- Sub-Zero Freezer and Refrigerator options
  *Inside temperatures will not exceed outside temperatures

Specifications:

40 foot Solar ColdBox
- Outside dimensions: 40.0ft x 8.0ft x 9.5ft (12.2m x 2.4m x 2.9m)
- Inside dimensions: 32.5ft x 6.8ft x 8.0ft (9.9m x 2.1m x 2.4m)
- Weight: 16,700 lbs (7,575 kg)

20 foot Solar ColdBox
- Outside dimensions: 20.0ft x 8.0ft x 8.5ft (6.1m x 2.4m x 2.6m)
- Inside dimensions: 13.8ft x 6.8ft x 7.3ft (4.2m x 2.1m x 2.2m)
- Weight: 11,700 lbs (5,307 kg)

10 foot Solar ColdBox
- Outside dimensions: 20.0ft x 8.0ft x 8.5ft (6.1m x 2.4m x 2.6m)
- Inside dimensions: 10.0ft x 6.8ft x 7.3ft (3.1m x 2.1m x 2.2m)
- Weight: 9,000 lbs (4,082 kg)

40 foot Side-by-Side Solar ColdBox
- Outside dimensions: 40.0ft x 8.0ft x 9.5ft (12.2m x 2.4m x 2.9m)
- Freezer compartment inside dimensions: 11.0ft x 6.8ft x 8.0ft (3.4m x 2.1m x 2.4m)
- Refrigerator compartment inside dimensions: 21.5ft x 6.8ft x 8.0ft (6.5m x 2.1m x 2.4m)
- Weight: 16,700 lbs (7,575 kg)

Backpack
- 5.8ft x 7.5ft x 7.5ft (1.8m x 2.3m x 2.3m)
- Weight: 5,300 lbs (2,404 kg)
- Dimensions are approximate and do not include solar panels or optional add-ons.
Aldelano Solar ColdBox (cont.)

Capacity/Specifications (cont.)

Power Supply:
- Off-grid solar-powered unit with battery storage and generator backup (gasoline and diesel options available)
- Runs directly from solar power during the day and stored solar energy (batteries) at night
- Up to 15-hour battery feed before generator is needed

Specifications:
- The Aldelano SmartLogic system automatically switches to an alternative energy source (generator or grid power) when batteries reach pre-set discharge levels and automatically reverts when batteries are fully charged
- Generator simultaneously runs the equipment and charges the batteries reducing the need for the generator
- Option to grid-tie if desired or can select fully on-grid option
- Energy efficient (240-volt, single phase)

Features:
- 50 hz and 60 hz models available
- On-board displays and optional alarms for temperature monitoring
- Optional remote temperature monitoring and remote temperature control
- Can be used as an independent power supply for both 110v and 220v items
- Drive-in T-floor supports forklift and facilitates air circulation

Features (cont.):
- Special weather-proof coating seals against rust and reflects UV rays keeping the box cooler and running more efficiently
- Ships as a fully assembled unit, just set up and connect solar panels
- Complete unit handles and transports as a standard shipping container
- Filtration system protects components from the elements including sand and dust
- Easy to set up
- Easy to operate
- Quality of Made in the USA

Site Considerations:
- Ships as a fully assembled unit
- The Aldelano Solar ColdBox will require a crane for offloading. The delivery truck must be able to access and back into the actual location where the container will rest. Once the unit is in place, special equipment will be needed to move it to another location.
- Solar panels must face due south for locations above the equator, due north for locations below the equator. Contact your Aldelano Sales Rep for specific space requirements and location considerations.
Solar Cold Room

Description
GREEN’s Cold Storage is a Solar Powered Cold Storage System that accommodates 5-6 metric tonnes of fresh horticulture/agricultural produce. It ensures to improve food security by reducing 30% wastage of perishable produce. Coupled with smart temperature controls, humidity, and air quality parameters inside at recommended conditions. This extends the freshness of fruits, vegetables and other perishable food from 2 days to about 21 days. Ensure maximum efficiency thereby minimizing energy requirements and bringing down the cost of production and ensuring seamless operations. Solar powered cold storage systems will enhance agriculture production and income, reduce waste and improve food security.

Capacity/Specifications
1. Small Units:
   - 2-3MT Storage capacity
   - 3KW Solar Panel
   - Temperature: 0 to 15°C
2. Medium Units:
   - 10MT Storage capacity
   - 15KW Solar Panel
   - Temperature: 0 to 15°C
3. Large Units:
   - 5000 MT Storage capacity
   - 125 KW Solar Panel
   - Temperature: -4°C to high 20°C

Warranty
2 Years
PUE PRODUCT INFORMATION

HOME AND BUSINESS SOLUTIONS
**Niwa Energy 50 + Solar Computer**

**Manufacturer**

**Niwa**

[www.niwasolar.com](http://www.niwasolar.com)

**Warranty**

1 Year – With PC
2 Years - Solar System

**Description**

This all-in-one package is ideal for small to medium businesses operating in off-grid areas.

**Specifications**

**Components:**
- 48W Solar PV module
- Energy storage in 5+ year LFP battery
- Battery specs: 10Ah, 12.8V
- Easy to use solar controller
- 3 x Solar lamps
- Quad-Core Intel processor computer with integrated 24 Full HD monitor and 64 GB super-fast SSD drive
- Mobile charging capability
- 7 x USB ports

**Distributor(s)**

Contact for quotes and further information
Brian Bell Trade Electrical | Brett Cox
Email: brett.cox@bbte.com.pg
Phone: +675-325-5411
[www.brianbell.com.pg](http://www.brianbell.com.pg)

**Sun King Home 400**

**Manufacturer**

Sun King

[www.greenlightplanet.com](http://www.greenlightplanet.com)

**Description**

This all-in-one package is ideal for small to medium businesses such as bars and guesthouses operating in off-grid areas.

**Specifications**

**Components:**
- 40W, 18V Solar PV Module
- 122Wh Lithium Battery
- 2 x Tube lights
- Radio
- 32 Inch Digital TV and remote controller
- USB Charging ports – phone charging

**Warranty**

2 Years

**Distributor(s)**

Contact for quotes and further information
Solar Solutions | Kina Bank Compound, Cnr Cameron Rd and Waigani Dr, Unit 1, Lot 17, Sect 451, Port Moresby, PNG
Phone: +675 76267708 / 73529034
Email: sales@solarsolutionspng.com
[www.solarsolutionspng.com](http://www.solarsolutionspng.com)

NGF | E: sales@ngf.com.pg
Phone: Lae 472-2998 | Port Moresby 323-900
[www.ngf.com.pg](http://www.ngf.com.pg)
d.light X500

Manufacturer

www.dlight.com

Description

This all-in-one package is ideal for small to medium businesses such as bars and guesthouses operating in off-grid areas.

Specifications

- 25W solar module
- 3 light points (2 LEDs, 1 tube light), dimmer switch
- 2 USB ports
- Mobile charging
- Other appliances supported (sold separately): smartphone, TV, fan

Warranty

2 Years

Distributor(s)

Hardware Haus Ltd.
Email: info@hardwarehaus.com.pg
Phone: +675 7031 7877
Facebook: www.facebook.com/HardwareHaus

Sola PayGo
Phone: +675 7610 2222
Facebook: www.facebook.com/solapaygo/

BioLite 5000

Manufacturer

BioLite Energy
www.global.bioliteenergy.com

Description

This all-in-one package is ideal for small to medium businesses such as bars and guesthouses operating in off-grid areas.

Specifications

- 50W Solar Panel
- 115 Wh, LI-NMC Battery
- 3 x Hanging Lights and 1 x motion sensor light (200 lumens each) with switches
- 3 x 12V appliance ports
- 24” or 32” HD Digital TV with USB Video, HD Broadcast and Satellite capabilities, and more
- Run Time: 6 - 80 Hours
- The Solar Home 5000 can also be connected to the Solar Home 620+ to provide up to 230 Wh of battery storage

Warranty

2 Years

Distributor(s)

Solar Solutions
Kina Bank Compound, Cnr Cameron Rd and Waigani Dr, Unit 1, Lot 17, Sect 451, Port Moresby, PNG
Phone: +675 76267708 / 73529034
Email: sales@solarsolutionspng.com
www.solarsolutionspng.com
Solarun Apollo SR31

Manufacturer
Solarun
www.solarunoffgrid.com

Warranty
2 Years

Description
The Solar Run Apollo (SR31) solar home system is the ideal power grid for your home or business, bundled with lights and useful accessories. This modern, efficient energy solution includes a solar panel, mobile-charging battery pack, three light points.

Specifications
- Solar panel size: 40W
- Battery type: 12.8V, 6Ah, LiFeP04
- Maximum brightness: 1200 lumens
- Number of light points: 3
- Other optional accessories: radio, torch, 9’ DC fan

Distributor(s)
BNBM
Contact for quotes and further information
Jeffery Cheng
Kennedy Road Gordons, PO Box 466 Boroko
Phone: +675 325 0633 | +675 325 0866
Email: jeff.cheng@bnbmpng.com
www.bnbmpng.com

Solarun MBox SR32

Manufacturer
Solarun
www.solarunoffgrid.com

Warranty
2 Years

Description
As the latest generation solar home system of Solar Run, Mbox is the best choice for your home or business. This modern and efficient energy solution includes solar panels, mobile rechargeable battery packs, and four 3W LED bulbs (240lm). Upgrade to a modern lifestyle with Solar Run Mbox.

Specifications
- Battery capacity: Extendable) up to 12.8V/60Ah in order to power more household or business appliances.
- With an LCD display showing the working status.
- Powers tube light up to 8W.
- Powers DC TV and fan together. Also, it is able to power a DC fridge, and productive appliances such as hair clippers and sewing machines.
- Portable torch, can be used either indoor or outdoor.
- The external radio helps to stay up-to-date on important news or relaxing with music.
- Support Pay-as-you-go (Paygo), allows the end-user to purchase on installment, reducing their financial burden.

Distributor(s)
BNBM
Contact for quotes and further information
Jeffery Cheng
Kennedy Road Gordons, PO Box 466 Boroko
Phone: +675 325 0633 | +675 325 0866
Email: jeff.cheng@bnbmpng.com
www.bnbmpng.com
Table of contents

**Engie Mobisol Bar Package**

**Manufacturer**

Engie Mobisol
www.engie.com

**Description**

This package is ideal for MSME’s to operate a mobile charging business in off-grid areas.

**Specifications**

- 80W Solar Panel (Poly)
- 12V, 50Ah Battery with embedded Solar Controller
- 4 light points
- Mobile charging
- Appliances: 1 Mobicharger with 4 x Bulb lights and switches (charges up to 10 phones at once)

**Warranty**

2 Years

**Distributor**

Contact for quotes and further information
Solar Solutions | Kina Bank Compound, Cnr Cameron Rd and Waigani Dr, Unit 1, Lot 17, Sect 451, Port Moresby, PNG
Phone: +675 76267708 / 73529034
Email: sales@solarsolutionspng.com
www.solarsolutionspng.com

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**Engie Mobisol Barbershop Package**

**Manufacturer**

Engie Mobisol
www.engie.com

**Description**

This package is ideal for barber shops operating in off-grid areas.

**Specifications**

- 120W Solar Panel (Poly)
- 12V, 50Ah Battery with embedded Solar Controller
- 5 light points (3.5W)
- Mobile charging
- Appliances: 2 Solar DC Hair Clippers and 5 x Bulb lights and switches

**Warranty**

2 Years

**Distributor**

Contact for quotes and further information
Solar Solutions | Kina Bank Compound, Cnr Cameron Rd and Waigani Dr, Unit 1, Lot 17, Sect 451, Port Moresby, PNG
Phone: +675 76267708 / 73529034
Email: sales@solarsolutionspng.com
www.solarsolutionspng.com
EngieMobisol Mobicharger Package

Description
This package is ideal for MSME's to operate a mobile charging business in off-grid areas.

Specifications
- 80W Solar Panel (Poly)
- 12V, 50Ah Battery with embedded Solar Controller
- 4 light points
- Mobile charging
- Appliances: 1 Mobicharger with 4 x Bulb lights and switches (charges up to 10 phones at once)

Warranty
2 Years

Distributor(s)
Contact for quotes and further information
Solar Solutions | Kina Bank Compound, Cnr Cameron Rd and Waigani Dr, Unit 1, Lot 17, Sect 451, Port Moresby, PNG
Phone: +675 76267708 / 73529034
Email: sales@solarsolutionspng.com
www.solarsolutionspng.com
Solar Egg Incubator

Manufacturer
Lifeway Solar
www.lifewaysolar.com/prdt_pincubator.html

Warranty
2 Years

Description
This fully automatic unit is capable of hatching eggs of quail, chicken, turkey, goose, etc. Supplied with a fully automatic heat control system, with excellent thermal properties of the fiber cabinet, ensures the best possible conditions for egg incubation, particularly in rural villages.

Specifications
- Capacity: 40 – 500 eggs per batch.
- 240V / 100Watt Heater Coil,
- 12V / 20Watt fan
- 6 Core mm Copper cable,
- 24V / 250W Solar Photovoltaic Module
- 12V / 200Ah Solar Tubular Tower Battery
- 12V to 24V / 450 VA Solar Inverter

Distributor
Contact for quotes and further information
Brian Bell Trade Electrical | Brett Cox
Email: brett.cox@bbte.com.pg
Phone: +675-325-5411
www.brianbell.com.pg
PUE PRODUCT INFORMATION

MICRO, SMALL AND MEDIUM ENTERPRISES
Singer Solar Sewing Stations

Manufacturer

SINGER
www.singer.com

Description

This sewing machine offers six basic and decorative stitches, including a four-step buttonhole, with easy stitch selection and preset stitch length and width. The front-loading bobbin and quick and easy threading make for effortless use, while the full metal frame ensures stability despite its lightweight and portable design. With adjustable thread tension, long-lasting LED lighting to illuminate the sewing area, and an extra high presser foot lift, this machine also boasts a free arm for sewing cuffs, collars, trouser hems, and more, making it a versatile and efficient tool for any sewing projects both on and off grid.

Specifications

Sewing machine:
- Product Size: 29 x 37 x 18 cm (11.4 x 14.6 x 7.1 inches)
- Product Weight: 4.4 kg

5 solar sewing station:
- 4 x Singer sewing machines
- 1 x overlocker
- 5 x lights

10 solar sewing station:
- 8 x Singer sewing machines
- 2 x overlockers
- 10 x lights

Warranty

2 Years

Distributor

Contact for quotes and further information
Brian Bell Trade Electrical | Brett Cox
Email: brett.cox@bbte.com.pg
Phone: +675-325-5411
www.brianbell.com.pg
8-16 port Solar Charging Station

**Description**
Brian Bell’s solar USB port charging station is an innovative and versatile charging solution that harnesses the power of the sun to charge multiple devices simultaneously. With 8 USB ports, this charging station allows you to charge all of your electronic devices, including smartphones and tablets without the need for a wall outlet or power bank.

**Specifications**
Complete solar 8-16 USB port charging station for remote DC appliance (phone, music box, torch, radio)

**Warranty**
2 Years

**Manufacturer and Distributor**
Contact for quotes and further information
Brian Bell Trade Electrical | Brett Cox
Email: brett.cox@bbte.com.pg
Phone: +675-325-5411
www.brianbell.com.pg

SolaRun Sewing Machine

**Manufacturer**
Solarun
www.solarunoffgrid.com

**Description**
The Solarun mini sewing machine is a multifunctional machine that features a manual feed mechanism, a flat-bed mechanical configuration and offers only a chain stitch formation. Its key selling points include a double thread and double speed capability, and it also comes with accessories to enhance your sewing experience.

**Specifications**
- Stitch Formation: Chain stitch
- Max. Sewing Thickness: 1200mm/s
- Max Sewing Speed: 1200 Stiches/min
- Stitch Length: 50mm
- Power: 15W
- Overall Dimensions: 31*13*25cm
- Feed Mechanism: Manual
- Core Components: Gear, Motor
- Material: Plastic
- Voltage: 12V
- Function: Multifunction

**Warranty**
2 Years

**Distributor**
Contact for quotes and further information
Jeffery Cheng
Kennedy Road Gordons, PO Box 466 Boroko
Phone: +675 325 0633 | +675 325 0866
Email: jeff.cheng@bnbmpng.com
www.bnbmpng.com
Solux Street Lighting

Manufacturer
Solux
www.solux-light.com

Description
A versatile solar streetlight. The bracket allows you to choose any angle or direction for the Solar panel. The light fixture can be adjusted in the right direction.

Specifications
- 20 Watts – 2800 Lumens
- 30 Watts – 4200 Lumens
- 40 Watts – 5600 Lumens
- 50 Watts – 7000 Lumens
- 60 Watts – 8400 Lumens
- 80 Watts – 11000 Lumens

Warranty
2 Years

Distributor
Contact for quotes and further information
Brian Bell Trade Electrical | Brett Cox
Email: brett.cox@bbte.com.pg
Phone: +675-325-5411
www.brianbell.com.pg

PBOX Solar Streetlights

Manufacturer
PowerBand Green Energy Ltd
www.pboxlighting.com

Warranty
2 Years

Description
All-in-one solar streetlight for outdoor solar lighting solutions. Integrated with Battery Management system, IP65, Lithium-Ion battery, Cree-LED chips with Batwing Spread.

Specifications
1. Power of PV Module (W): 35W
   Light Output (W): 15W
   Lithium Battery Capacity (Wh): 230Wh
   Lumens: 1800Lm
2. Power of PV Module (W): 55W
   Light Output (W): 30W
   Lithium Battery Capacity (Wh): 422Wh
   Lumens: 5000Lm
3. Power of PV Module (W): 130W
   Light Output (W): 50W
   Lithium Battery Capacity (Wh): 656Wh
   Lumens: 6000Lm

Distributor
Contact for quotes and further information
Brian Bell Trade Electrical | Brett Cox
Email: brett.cox@bbte.com.pg
Phone: +675-325-5411
www.brianbell.com.pg
PBOX Solar Streetlights (cont.)

Specifications

4. Power of PV Module (W): 260W
   Light Output (W): 80W
   Lithium Battery Capacity (Wh): 1312Wh
   Lumens: 9600Lm

Description

The lighting system boasts an elegant integrated design with an aluminium alloy casing and is equipped with advanced features such as a night sensor and microwave motion sensor. The system also comes with a remote control that provides easy access to 4 lighting modes and can be operated from up to 30 meters. Additionally, the system can support up to 3 nights of lighting after a single charge.

Specifications

1. 30W LED Power, 18V50W Solar Panel, 12.8V/27AH Li-ion Battery
2. 40W LED Power, 18V65W Solar Panel, 12.8V/36AH Li-ion Battery
3. 50W LED Power, 18V70W Solar Panel, 12.8V/42AH Li-ion Battery
4. 60W LED Power, 18V80W Solar Panel, 12.8V/70AH Li-ion Battery
5. 80W LED power, 18V100W Solar Panel, 12.8V/100AH Li-ion Battery
6. 100W LED Power, 18V130W Power Solar Panel, 12.8V/130AH Li-ion Battery
7. 120W LED Power, 18V140W Power Solar Panel, 2.8V/140AH Li-ion Battery

Warranty

2 Years
Solar Flood Lighting System

Description

The lighting system boasts exceptional ease of use and installation, featuring a unique wide-angle design that offers a maximum lighting angle of up to 270-degrees. It incorporates a smart charge controller that enables built-in brightness and lighting time adjustment via remote controller. Moreover, it provides ultra-bright illumination sensitivity with a 120-degree sensor angle and a long sensing range of 10-26 feet, ensuring optimal lighting coverage and energy efficiency.

It has three lighting modes including:

- **No Bright + Full Bright**: Switches on to full brightness when motion is detected.
- **Dim Bright + Full Bright**: Switches from slight brightness to full brightness when motion is detected.
- **Sensor/Alarm**: When motion is detected, the alarm will be triggered for 30 seconds, while both sides of the device emit a bright red light and a blurred flashlight, providing enhanced safety measures.

Specifications

- Solar Panel: 5.5V, 1.5W
- Product Size: 300*106*55 mm
- Input Voltage: 3.7V
- Material: ABS + Acrylic
- Working Temperature: -20 -50ºC
- Light Mode: All time, PIR, Dim Light with Alarm & Red/Blue Flashing Lighting at sides
- Colour Temperature: 5500 - 6500(CW)

Warranty

2 Years

Manufacturer and Distributor

GREEN Ltd. | Mr. Bernard George
PO Box 1243, Section 405, Allotment 4, Port Moresby, National Capital District, PNG
Email: bernard@green.com.pg
Phone: +675-3250325
www.green.com.pg

Contact for quotes and further information
PUE PRODUCT INFORMATION

SOLAR GENERATORS
Mission 1202 Solar Power Station

Manufacturer

Power4All
Website: www.power4all.org
FB: www.facebook.com/power4all.org

Warranty

2 years warranty against manufacturing defects

Description

Mission 1202 solar power station is a plug-and-play system that can be charged through solar energy or grid electricity. There is no installation, assembly or set up needed, making it ready to deploy and use on demand.

Convenient for private housing, businesses, and public facilities in both on and off-grid areas.

Specifications

- 1.2kWh LFP high performance battery
- 660Wp (2 x 330Wp) Percmono high efficiency solar panels
- 1000W pure sine wave inverter
- 30A MPPT controller
- Multi-function LCD display
- 2 x 110/220V universal AC sockets
- DC sockets (4 x 12V, 4 x 5V USB)
- 4 ultra-bright 6W LED lighting sets
- AC/DC lithium charger
- Power box dimensions: 258 x 840 x 320mm
- Power box weight: 24 kgs.
- PV mounting brackets are supplied separately.

Distributor(s)

Contact for quotes and further information
Solar Solutions | Kina Bank Compound, Cnr Cameron Rd and Waigani Dr, Unit 1, Lot 17, Sect 451, Port Moresby, PNG
Phone: +675 76267708 / 73529034
Email: sales@solarsolutionspng.com
www.solarsolutionspng.com
Mission 5100 Solar Power Station

Manufacturer

Power4All
Website: www.power4all.org
FB: www.facebook.com/power4all.org

Warranty

2 years warranty against manufacturing defects

Description

Mission 5100 solar power station is a plug-and-play system that can be charged through solar energy or grid electricity. There is no installation, assembly or set up needed, making it ready to deploy and use on demand. Convenient for private housing, businesses, and public facilities in both on and off-grid areas.

Specifications

- 5.1kWh Lithium Ferro Phosphate (LFP) high performance battery
- 1100Wp (4 x 275Wp) high efficiency solar panels
- 3000W pure sine wave inverter
- 50A MPPT controller
- Multi-function LCD display
- 3 x 110/220V universal AC sockets
- DC sockets (8 x 12V, 4 x 5V USB, 2 lighter sockets)

Specifications (cont.)

- DC sockets (8 x 12V, 4 x 5V USB, 2 lighter sockets)
- 4 ultra-bright 6W LED lighting sets
- AC/DC lithium charger
- Power box dimensions: 400 x 695 x 685mm
- Power box weight: 88 kgs.
- PV mounting brackets are supplied separately.

Distributor(s)

Contact for quotes and further information
Solar Solutions | Kina Bank Compound, Cnr Cameron Rd and Waigani Dr, Unit 1, Lot 17, Sect 451, Port Moresby, PNG
Phone: +675 76267708 / 73529034
Email: sales@solarsolutionspng.com
www.solarsolutionspng.com
Solar Integrated Power System

Manufacturer and Distributor

Contact for quotes and further information
GREEN Ltd. | Mr. Bernard George
PO Box 1243, Section 405, Allotment 4, Port Moresby, National Capital District, PNG
Email: bernard@green.com.pg
Phone: +675-3250325
www.green.com.pg

Description
GREEN Solar Integrated Power Systems range from 1200W to 4800W systems. GREEN's Solar Integrated Power Systems are off-grid solar power systems suitable for domestic applications. Inverter offers high performance, clean aesthetics, innovative features and easy installation. Multifunctional combining functions of inverter, solar charger and battery charger offer uninterruptible power support. Its comprehensive LCD display, MPPT tracker with excellent energy harvest features, is easy to install. The system has been designed for a reliable environment with effective protection against overload and short-circuit protection.

Specifications

1200W System
- Battery rated voltage: 12.8VDC
- Battery Type: LiFePO4
- Battery Capacity: 100Ah
- Rated power: 1000 W
- Input Voltage & Frequency: 145-275V AC, 45-65Hz
- Output Voltage & Frequency: 220V AC, 50/60 Hz
- MPPT voltage & PV power: 15V-150V DC, 400 W

Specifications (cont.)
- DC12V, DC5V Output: 60W, 10W
- Operating & Storage ambient temperature: -20 - +50°C, -25 - +55°C
- Heat dissipation/Cooling &
- Operating/Storage ambient: Controlled by exhaust fan & 0-90%

2400W System
- Battery rated voltage: 25.6VDC
- Battery Type: LiFePO4
- Battery Capacity: 100Ah
- Rated power: 1500 W
- Input Voltage & Frequency: 145-275V AC, 45-65Hz
- Output Voltage & Frequency: 220V AC, 50/60 Hz
- MPPT voltage & PV power: 30V-150V DC, 1200 W
- DC5V, DC12V Output: 120W, 10W
- Operating & Storage ambient temperature: -20 - +50°C, -25 - +55°C
- Heat dissipation/Cooling & Operating/Storage ambient: Controlled by exhaust fan & 0-90%

Warranty
2 years
**Solar Integrated Power System**

**Manufacturer and Distributor**

Contact for quotes and further information
GREEN Ltd. | Mr. Bernard George
PO Box 1243, Section 405, Allotment 4, Port Moresby, National Capital District, PNG
Email: bernard@green.com.pg
Phone: +675-3250325
www.green.com.pg

**Specifications**

- 5kWh Power Storage Lithium
- Battery Type: Lifepo4
- Battery Rated Voltage: 48V
- Protection: IP65
- Capacity: 100/150/200Ah
- 10W Monocrystalline Solar Panel
- Solar Panel Hybrid Inverter: 3.6-12KVA
- Integrated Design supports appliances
- LCD Display

**Warranty**

2 years

**Description**

The GREEN Solar Home Power System is equipped with the latest HESS battery systems, and has been specifically designed to incorporate high-power density, extended service life, and seamless installation. As an environmentally conscious backup power system, it utilizes phosphates rather than cobalt, thereby mitigating any environmental concerns that may arise due to improper disposal and minimizing the risk of thermal runaway. Additionally, this type of solar battery exhibits a lower rate of capacity loss over time.

GREEN’s energy storage system is integrated with cutting-edge power conservation and energy storage technologies, providing high efficiency power conditioning capabilities for demand management, power dispatch, and other related purposes. It features mono crystalline high efficiency solar panels, a hybrid inverter ranging from 3.6 - 12KVA, and an intelligent monitoring system that effectively receives and processes information from the solar power system. With its high level of integration and performance, GREEN’s solar power system offers a reliable and efficient source of power for various applications.
**Mission 1000 Solar Power Station**

**Description**
Mission 1000 is a plug-and-play system that can be charged through solar energy or grid electricity. There is no installation, assembly, or set-up needed, making it ready to deploy and use on demand. Convenient for on- and off-grid businesses and public facilities.

**Specifications**
- 10240Wh LFP high performance battery
- 3600Wp (9 x 400Wp) Perc-mono high efficiency solar panels
- 5000W pure sine wave inverter
- 40A MPPT controller
- Multi-function LCD display
- 4 x 110/220V universal AC sockets
- DC sockets (4 x 12V, 4 x 5V USB)
- In-built ATS
- AC/DC lithium charger
- 4 x wheels with wheel-lock
- Power box dimensions: 790 x 560 x 920mm (without wheels)
- PV mounting brackets are supplied separately.

**Manufacturer**
Power4All
Website: [www.power4all.org](http://www.power4all.org)
FB: [www.facebook.com/power4all.org](http://www.facebook.com/power4all.org)

**Warranty**
2 years

**Distributor(s)**
Contact for quotes and further information
Solar Solutions | Kina Bank Compound, Cnr Cameron Rd and Waigani Dr, Unit 1, Lot 17, Sect 451, Port Moresby, PNG
Phone: +675 76267708 / 73529034
Email: sales@solarsolutionspng.com
[www.solarsolutionspng.com](http://www.solarsolutionspng.com)

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Sun King Solar Inverter

**Description**

The Sun King 8000 Solar Inverter provides homes and businesses with seamless, clean, and affordable energy.

The inverter’s 2.56 kWh, long-lifetime LFP battery charges through solar (and grid connections, when available) to reduce costs and provide an uninterrupted power supply.

From home lighting, refrigerators, and televisions to business computers, food processing equipment, and light machinery, the Sun King Solar Inverter can power a wide range of standard AC appliances.

Convenient for on- and off-grid businesses and public facilities.

**Specifications**

- 2.56kWh LFP high performance battery
- 450Wp monocrystalline high efficiency solar panels
- 2000W pure sine wave inverter
- 30A MPPT controller
- Multi-function LCD display
- 110/220V universal AC sockets
- DC sockets (12V & 5V USB)

**Manufacturer**

Sun King
www.sunking.com

**Warranty**

2 years

**Specifications (cont.)**

- AC/DC lithium charger
- compatible with Pay-Go platform

**Distributor(s)**

Contact for quotes and further information
Solar Solutions | Kina Bank Compound, Cnr Cameron Rd and Waigani Dr, Unit 1, Lot 17, Sect 451, Port Moresby, PNG
Phone: +675 76267708 / 73529034
Email: sales@solarsolutionspng.com
www.solarsolutionspng.com
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