

The Sun King Catalogue

**Quality Solar Solutions for Every Home,
Business, and Budget**





Introducing Sun King

In 2008, Sun King produced its first solar-powered lamp. Today, Sun King is the world's leading off-grid solar energy company. Sun King's 3,000 staff have served 24 million homes and businesses based around the world, powering access to brighter lives.

We design, distribute, install, and finance solar energy solutions for those who cannot access or afford traditional electrical grid connections. From cost-effective solar lanterns and home systems that provide entry-level access to electricity to powerful, multi-kilowatt-scale solar systems that offer power equity with the traditional electrical grid, Sun King's broad array of products meets diverse power and light needs.



Product Ranges

Sun King offers four main solar product ranges to suit different incomes, power needs, and preferences, ensuring every customer finds a suitable solution.



Solar Lanterns and Solar Appliances

Portable, durable solar lanterns and appliances that deliver up to 5 Wp of solar and are designed for on-the-go or home lighting, phone charging, and entertainment.



Solar Home Systems and Accompanying Appliances

Cost-effective rooftop solar systems that power lights, mobile phones, and DC-compatible products like televisions and fans. Designed for customers with no or unreliable grid access and offering 5 to 80 Wp of solar power, these systems provide essential light and power for homes and businesses.



PowerPlay

Solar power stations that deliver up to 1000 Wp of solar power. Designed to serve both as a fixed energy system for buildings with no or unreliable power and as a mobile power solution for use in multiple locations. Features standard AC plugs for high-efficiency fridges, computers, and other standard electrical appliances, DC power outlets for energy-efficient lights and appliances, as well as USB ports for charging phones and devices.



PowerHub

Multi-kilowatt AC solar and energy storage for your modern home or business. Customised to your needs and fully integrated into your home, business, or public facility's electricity distribution system to power all your standard AC appliances day and night, during outages, and when you want to go off-grid. These hybrid solar inverter systems draw power from solar panels and the grid, where available, for an uninterrupted, reliable power supply. With models ranging from 2 kW to 30 kW, the modular and expandable PowerHub range meets diverse power needs, from small homes to larger commercial operations.



Key Benefits of All Sun King Products

EasyBuy Payment Technology

Almost all Sun King products incorporate Sun King's optional EasyBuy technology. This innovative 'pay-as-you-go' technology system allows customers to pay for their products in small instalments. EasyBuy breaks down the financial barriers impeding customers from transitioning to solar.

Long-Lasting Batteries

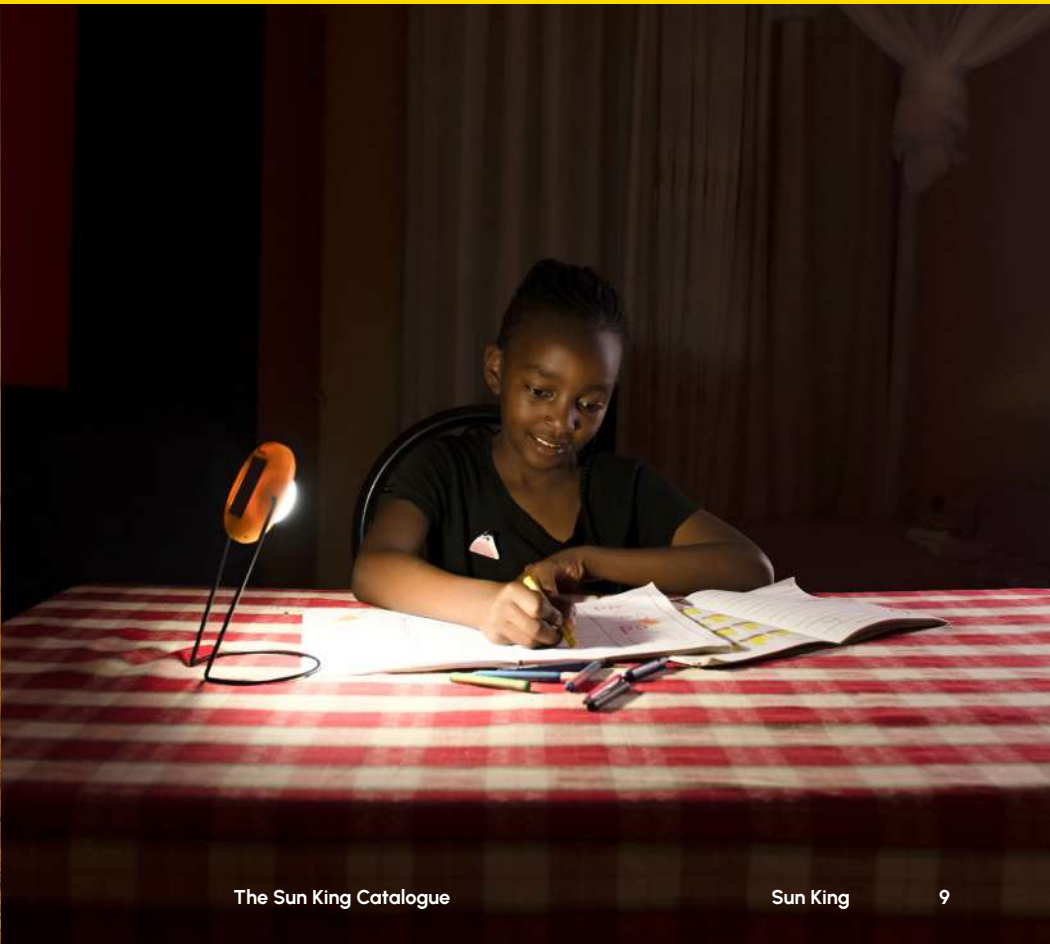
Sun King incorporates the latest battery science and technology into our products, ensuring long run times and durable performance. Our batteries retain their power for years to come.

Long Warranty Periods

Our confidence in the functionality and durability of our products is backed by industry-leading warranties.



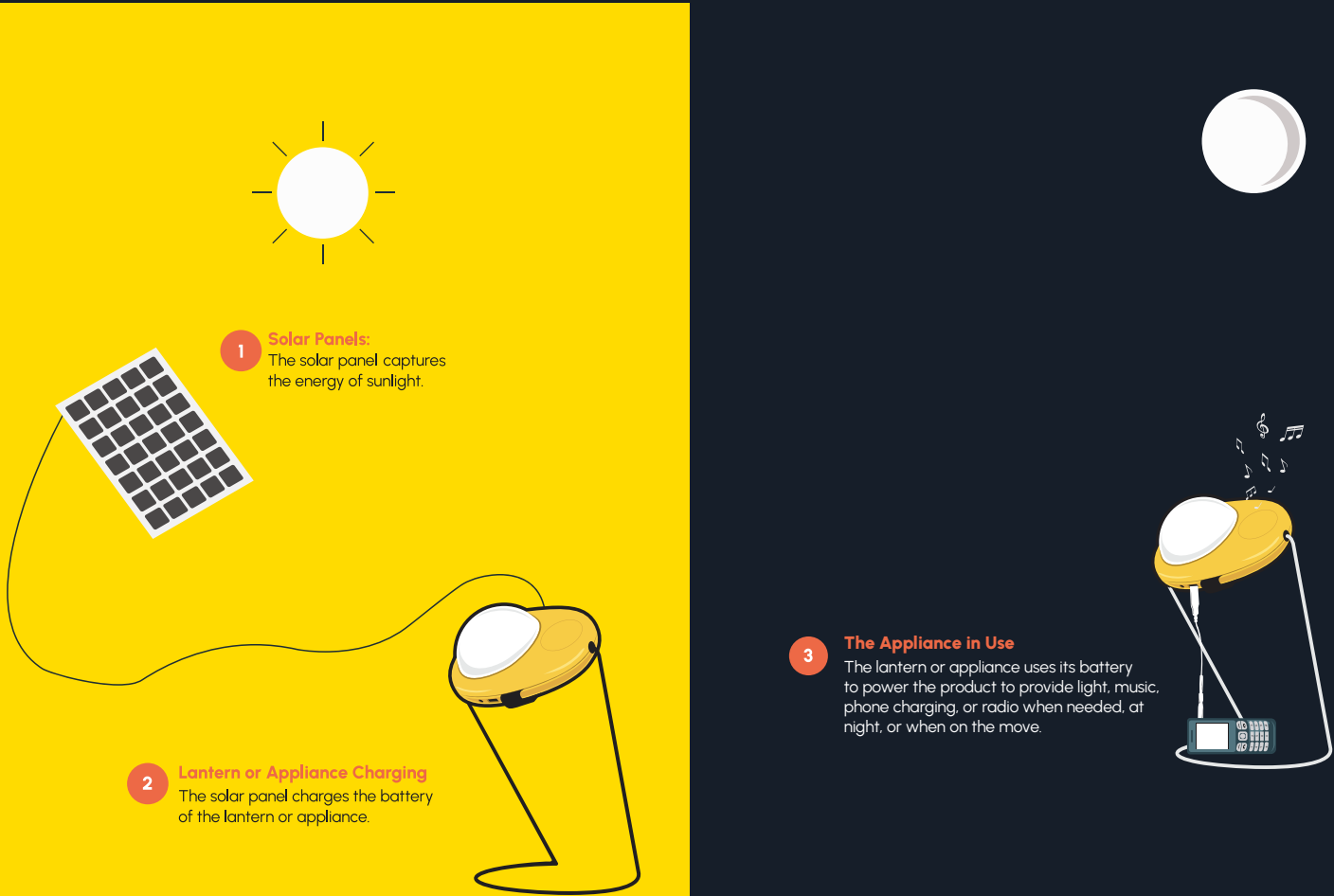
Solar Lanterns and Solar Appliances



Solar Lanterns and Solar Appliances

Sun King offers a wide range of portable solar lanterns and solar appliances. These products provide on-the-go lighting, phone charging, music, and entertainment. The selection varies from straightforward solar-powered lanterns to advanced devices that combine lighting with phone charging as well as integrated radio and music features.

How Solar Lanterns and Solar Appliances Work



Key Benefits

Best in Class	Offering unmatched luminosity and leading on-the-go mobile charging solutions within their cost category.
Versatile Design	Our solar lanterns are designed with ease of use in mind. Sun King's lantern stand can transform the lamp into a torch, a desk light, or a room light.
Built to Last	Sun King's products are incredibly durable and feature a battery lifespan of up to five years.
Solar Panel Included	Features either a built-in solar panel within its portable design or a separate solar panel for charging.



Solar Lanterns

Product Specifications

Maximum Brightness
Runtime on Low-Power Mode
Solar Panel
Battery Energy
USB Phone Charging Port and Capability
Additional Functionality
Available on EasyBuy
Recommended Retail Price (USD)

Sun King Pico Plus



50 lumens
72 hours
0.35 W
1.4 Wh
Yes
Can be charged by a USB adapter, using the attached charging cable.
No
\$7

Sung King Pro 200



200 lumens
72 hours
2.35 W
9.4 Wh
Yes
N/A
No
\$25

Sun King Pro 400



400 lumens
100 hours
5.5 W
18.9 Wh
Yes
N/A
No
\$40

Sun King Pro



160 lumens
36 hours
2.7 W
9.9 Wh
Yes
N/A
Yes
\$35

Sun King Boom Gen 2



250 lumens
50 hours
5.2 W
9.9 Wh
Yes
FM Radio MP3 Player Speakers 3.5mm Headphone Jack Bluetooth
Yes
\$30

Solar Appliances



Product Specifications

Overview

Key Benefits

Warranty

Recommended Retail Price (USD)

Sun King Solar Fan



The Sun King Solar Fan is lightweight and easily portable, featuring 14-inch blades. It is perfect for use anytime and anywhere, powered by a compact, standalone 20 Watt solar panel.

Quiet and Durable Design: The brushless motor is designed for high performance and durability while keeping noise to a minimum. The three-wing blades are non-corrosive and minimise vibration for quiet operation.

Different Speeds: The fan's low, normal, and turbo speed settings allow customers to control their energy consumption as required.

High-Quality Battery: Featuring a best-in-class lithium-ion (NMC) battery, the powerful battery ensures the fan can be used around the clock.

1 year

\$90

Sun King Solar Torch



The Sun King Torch is the ultimate modern flashlight for all your needs. Perfect for nighttime outdoor adventures or emergency lighting, this powerful torch boasts a 300-lumen LED light with an impressive maximum beam distance of 300 metres. Using its inbuilt USB Type-C charging port, the Sun King Torch can be charged via the included solar panel or with AC electricity from the grid, eliminating the hassle of batteries.

Durable Design: Its robust water-resistant shell and aluminium exterior provide protection against drops, sand, dirt, and rain showers.

Different Light Settings: Three light settings, including high, ambient, and strobe (SOS) modes, allow users to light their space, conserve battery, and manage emergencies as needed.

Powerful, Smart Battery: The 9.4 Wh lithium-ion (NMC) battery provides up to 10 hours of light in low-light mode, with smart settings that automatically turn off the torch to conserve power when not in use.

N/A

\$10

Solar Home Systems

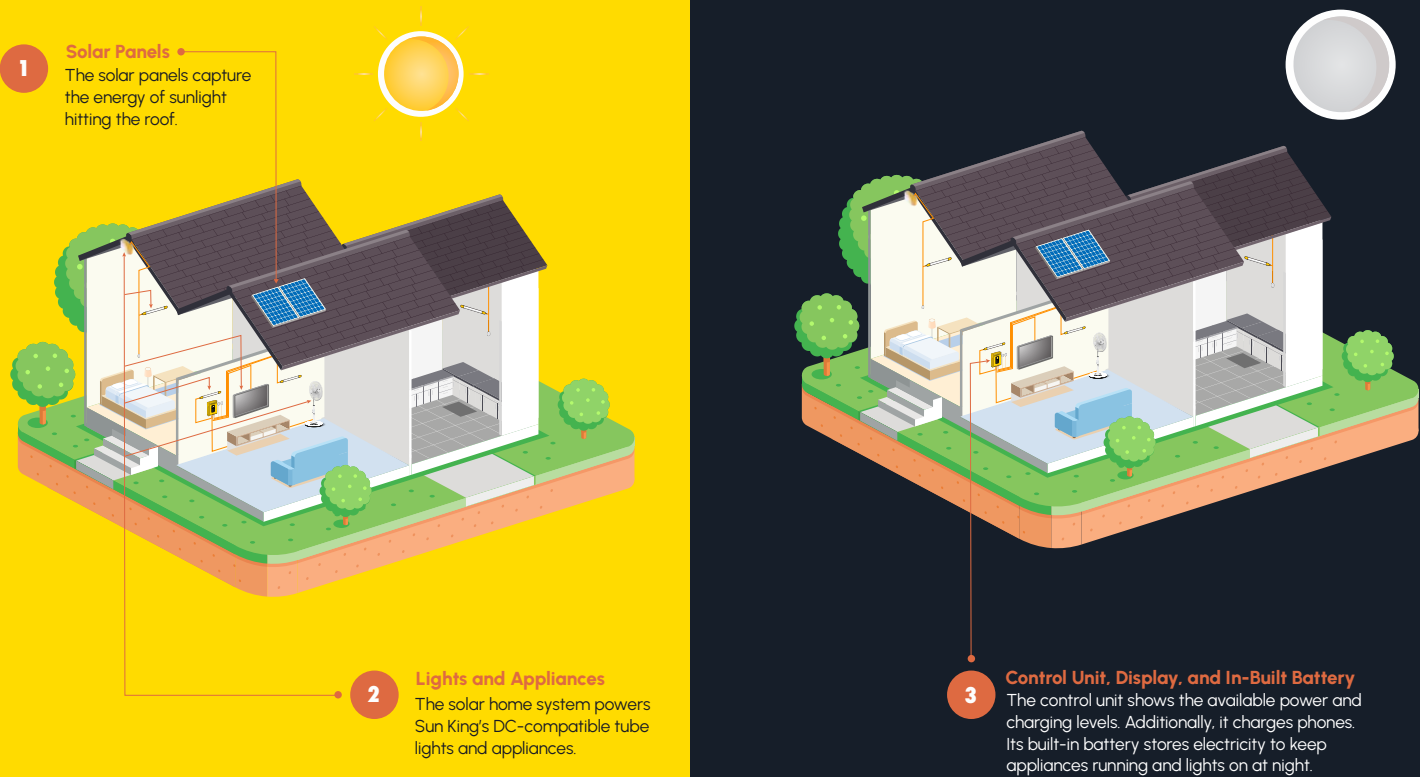


Solar Home Systems

Sun King's solar home systems meet the entry-level electricity needs of off-grid households and businesses. These systems can light multiple rooms, charge mobile phones, and power a range of energy-efficient, DC-powered appliances, such as radios, security lights, fans, and televisions designed by Sun King.

Our third-generation solar home systems, HomePlus (replacing the Home 40 Plus), HomePlus Pro (replacing the Home 200X), and HomePlus Max (replacing the Home 500X) deliver more power with larger solar panels, brighter lights, longer-lasting LFP batteries, and improved control electronics.

How It Works



Key Benefits

Modern Lighting	All systems include modern lights and accompanying wall-mountable switches, providing brighter and safer alternatives to expensive, hazardous, and dangerous kerosene and candle lighting.
Adjustable Brightness	With adjustable brightness settings, customers can conserve energy during periods of low sunlight and at night, illuminating their rooms per their preference.
Mobile Phone Charging	Each system includes a USB port for phone charging, keeping customers connected.
Robust Battery and Advanced Control Electronics	A simple-to-use control unit with an integrated quality battery stores electricity, ensuring lights and appliances can operate at night and during cloudy conditions.
Long Warranties	Every Sun King solar home system comes with an industry-leading, two-year warranty.



Product Specifications

Solar Power

Battery

Runtime on Low-Power Mode

Maximum Brightness of the System

Number of Lights Included in the System as a Standard

Capable of Powering Add-On Sun King Appliances

Charging Capability

Available on EasyBuy

GSM Enabled

Recommended Retail Price (USD)

HomePlus



7 W

19.2 Wh - Lithium-Ion (LFP)

43 hours

480 lumens

1 x 240-lumen tube light
2 x 120-lumen hanging lamps

Radio

Yes (standard feature phones only)

Yes

No

\$65

HomePlus Pro



13 W

38.4 Wh - Lithium-Ion (LFP)

55 hours

960 lumens

4 x 240-lumen tube lights

Security Light
Radio
Torch

Yes (supports feature phones and smartphones)

Yes

No

\$85

HomePlus Max



80 W

192 Wh - Lithium-Ion (LFP)

158 hours

2500 lumens

1 x 100-lumen motion-sensing security lamp
4 x 600-lumen tube lights

Extra Tube Light
Security Light
Radio
Torch
TV (24", 32", or 43")*
Fan

Yes (supports feature phones, smartphones, tablets, and laptops)

Yes

Yes**

\$110

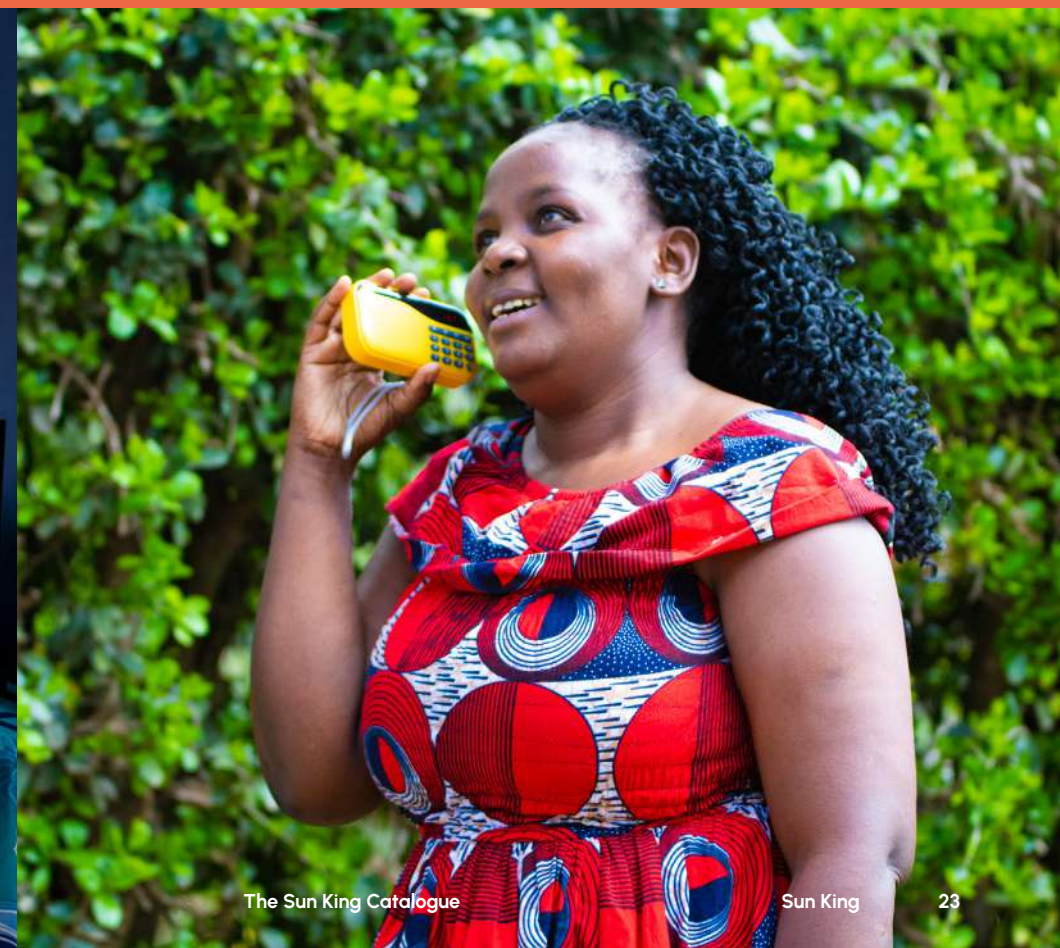
Notes

*Customers can choose to add a battery expansion pack and a 36 W solar panel to the Home 200X, which allows it to power a television and facilitates longer run times.

**The HomePlus Max is available with optional cellular GSM technology built in. The cellular connection enables the remote application of PAYG payments, eliminating the need for GSM-enabled customers to key in payment codes on the product's keypad. Further, the connection facilitates remote system performance monitoring, enabling proactive customer support.

Optional Solar Home System Appliances

Our more powerful solar home systems, such as the HomePlus Max, Home 500X, and Home 200X with battery expansion pack, can power additional, supplementary DC-compatible products and accessories listed on the next page.



Product

Sun King Torch

Sun King Motion-Sensor Security Light

Sun King Pedestal Fan

Sun King DC-Compatible Television

Sun King Radio and MP3 Player



Overview

A torch that can be charged by a solar home system.

Customers can add an additional motion-sensor security light to their solar home system.

Sun King's 17-inch pedestal fans can be run on standard AC electricity or DC electricity. The Pedestal Fan strikes the perfect balance between performance, durability, and affordability. It is designed to meet basic cooling needs for households in tropical climate zones.

DC-powered HD televisions, available in 24, 32, or 43 inches. All televisions are backed by a two-year warranty.

Solar-powered portable radio and MP3 player.

Key Benefits

Durable Design: Its robust water-resistant shell and aluminium exterior provide protection against drops, sand, dirt, and rain showers.

Different Light Settings: Three light settings, including 300-lumens turbo, 100-lumens normal, and strobe (SOS) modes, allow users to light their space, conserve battery life, and manage emergencies as needed.

Quality battery: The Sun King Torch is equipped with a top-quality nickel manganese cobalt (NMC) battery. With average daily use, this NMC battery in the Sun King Torch lasts twice as long as standard NMC batteries.

Enhanced Security: Detects motion up to seven metres away, providing a greater sense of security after dark.

Bright Illumination: The 100-lumen light illuminates the space around the property.

Durable and Water-Resistant: Built to withstand outdoor conditions, making it ideal for use in gardens and courtyards.

Speed Settings: Low, normal, and turbo fan speed settings allow customers to control their energy consumption and cool their space as required.

Brushless Motor: Operates using a powerful brushless motor designed for high performance and durability while keeping noise to a minimum.

Height Adjustable: Adjustable from 110cm to 130cm, allowing people to set the fan at their preferred level and adjust the height for optimal air distribution.

Crisp Display: A modern 16:9 LED screen providing excellent image quality.

Versatile Ports and Sound: USB and HDMI ports for playing MP4 videos or MP3 music. Powerful stereo speakers and a 3.5 mm headphone jack for high-quality audio.

Record and Play: USB recording functionality for recording digital content to watch later.

Multiple File Formats: Supports MP3, WMA, APE, FLAC, AAC, and WAV.

Auto Scan: Automatically scans and selects the next FM channel.

Channel Presets: Saves up to nine FM channels for easy access.

Warranty

N/A

N/A

One year

Two years

N/A

Recommended Retail Price (USD)

\$11

\$10

\$55

24": \$240
32": \$275
43": \$260

\$12

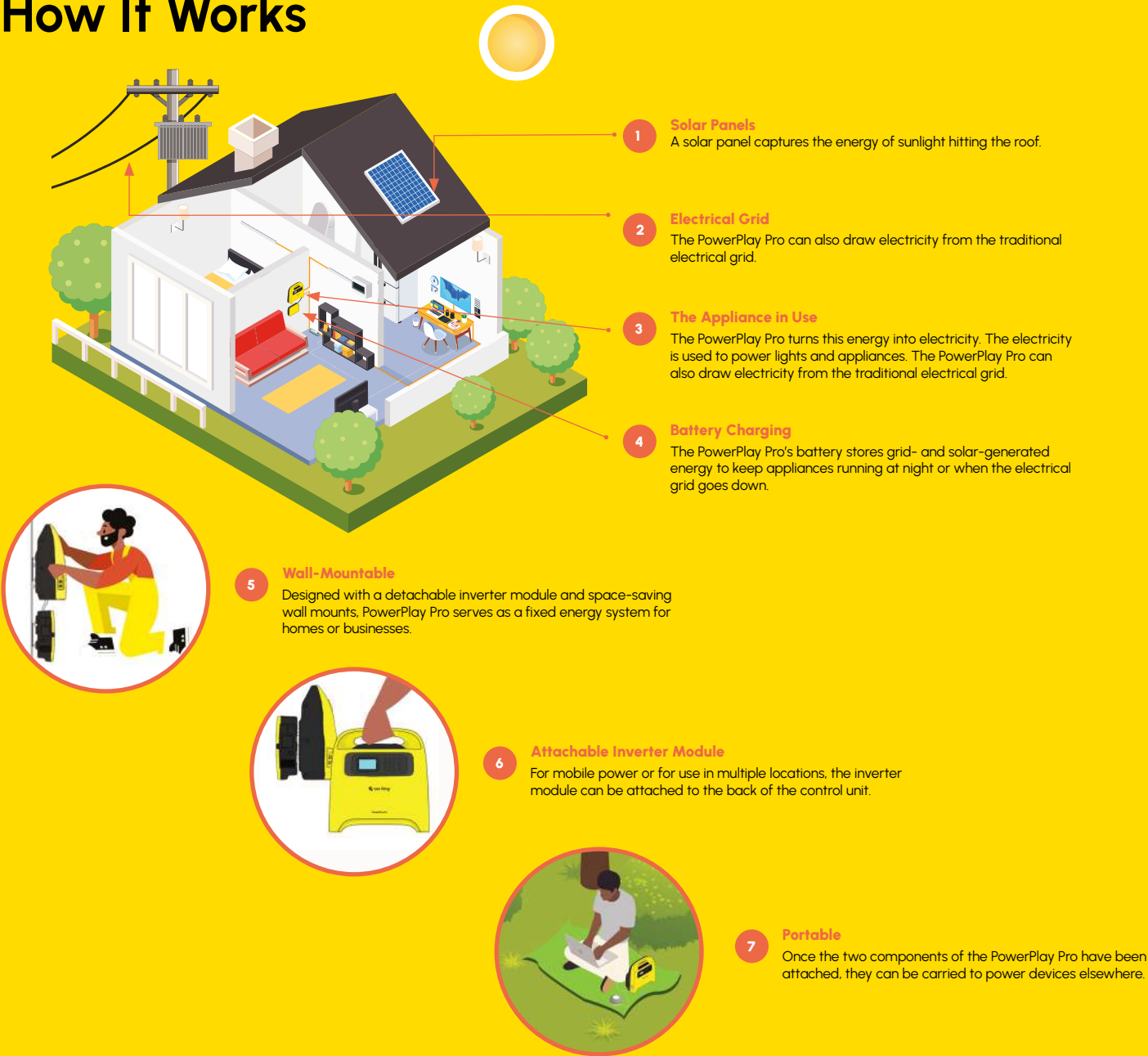
PowerPlay



PowerPlay Pro

PowerPlay Pro, the first in a line of new affordable solar power stations, powers both AC and DC appliances using solar power, grid electricity, and a long-lasting LFP battery. Easy to install and requiring minimal maintenance, PowerPlay Pro allows households and businesses to power everything from phones and televisions to laptops, refrigerators, and light business equipment. Cheaper than running a generator, PowerPlay Pro is a cost-effective energy solution for those living with unreliable grid connections.

How It Works



Key Specifications and Recommended Retail Price

What Can it Power?	Single-phase AC appliance
Inverter	Pure-sine-wave 600 W continuous and 1600 W surge output
Battery	800 Wh LFP battery
PV Modules	Up to 1000 W
Energy Demand Supported	Up to 3.6 kWh a day
Power Output Options	1 X 600 W AC socket, 1 X 65 W USB-C port, 4 X USB-A ports (5 V, 2.1 A), 4 X 12-Volt DC ports (12 V, 5 A), 1 X High-Current DC output (24 V, 30 A)

Key Benefits

Flexible Installation and Mobility	Functions as both a fixed power source and a portable system for energy on the go. Its battery and inverter modules can be separated for wall mounting for mobile use or transport, the modules can be joined together for easy carrying as a single unit.
Dual Energy Source for Reliable Power	Connects to both solar panels and, where available, the electrical grid.
Reliable Power Back Up	For those living with power blackouts and loadshedding, PowerPlay Pro acts as an 'Uninterruptible Power Supply' (UPS), switching to battery power within milliseconds of a power cut.
Diverse Power Output Options	PowerPlay Pro can simultaneously power multiple devices with its inbuilt ports.
Easy Installation and Minimal Maintenance	PowerPlay Pro is quick and easy to install. Permanent rooftop installation of the solar panels is recommended, but no complex wiring is needed. Once the solar panels are plugged in, the system is ready for immediate use and requires minimal maintenance.
Superfast Charging	Fully charge the battery with grid or solar energy in two hours. The inverter optionally plugs into a standard electrical grid outlet to rapidly charge the battery, while simultaneously supplying pass-through grid power to any connected AC appliances.
GSM-Connectivity	Built-in remote performance monitoring and PAYG features, enabled by cellular GSM connectivity, simplify financing, maintenance, and servicing.

Powering Common Appliances

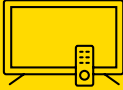
For power outages or places without any electrical connection, PowerPlay Pro keeps the essential gear you need running.



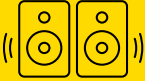
Sun King Tube Lights



Mobile Phones



Television



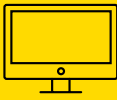
Speaker



TV Decoder



Wifi Router



Computer Monitor



Desktop Computer



Laptop



Printer



Pedestal Fan

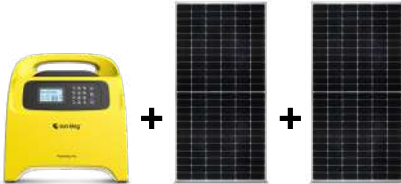


High-Efficiency Refrigerator

Powering any one appliance, PowerPlay Pro delivers:

Smartphone	Laptop	Lighting Kit	50-inch TV	High-Efficiency Refrigerator
34 charges	12 charges	3 days of light	7-hour runtime	24-hour runtime*

Note: Power consumption varies greatly between refrigerators. Two 450 W solar panels are required. This calculation reflects a refrigerator with a three-star energy rating or higher, less than 300 litres.

Product Bundle	PowerPlay Pro Without a Solar Panel	PowerPlay Pro With a 450 W Solar Panel	PowerPlay Pro With Two 450 W Solar Panels
			
Key Benefits	800 Wh battery with 600 W power output for powering devices during blackouts. - Recommended for on-grid customers.	- Recharges within 3-5 hours of sunlight. - Suitable for off-grid use with limited loads. Not suitable for powering refrigerators.	- Quick recharge in just 2-3 hours. - Supports more appliance usage during the day, with battery capacity remaining for use into nighttime. - This bundle can power a 250-litre high-efficiency refrigerator (rated three stars or better) for 24 hours a day. Alternatively, it can support a low-efficiency refrigerator during power cuts lasting 6-18 hours.
Recommended Retail Price (USD)	\$480	\$610	\$730

Examples: Performance With Different Bundle Options

Scenario			No Solar Panels	With One Solar Panel	With Two Solar Panels
 Sun King Tube Lights  Laptop	 Mobile Phones  Wifi Router	 Television  TV Decoder	4-hour runtime	7-hour total runtime (maximum 4 hours at night)	16-hour total runtime (maximum 4 hours at night)
 Sun King Tube Lights  Laptop	 Mobile Phones  Wifi Router	 Television  High-Efficiency Refrigerator	3-hour runtime	Bundle not recommended	13-hour total runtime (maximum 3 hours at night)
 High-Efficiency (3+ star) Refrigerator (less than 250 litres)			3-5 hour runtime (starting with a warm refrigerator) 12-18 hour runtime (starting with a cold refrigerator, e.g. after a powercut)	18-hour runtime (typically including 8 hours at night, with battery drained by morning)	24-hour runtime
 Low-Efficiency Refrigerator and Chest Freezers			3-5 hour runtime (starting with a warm refrigerator) 6-12 hour runtime (starting with a cold refrigerator, e.g. after a powercut)	Not recommended	6-18 hour runtime

Note: PowerPlay Pro cannot power appliances that draw over 600 watts, such as most water pumps, electric irons, microwaves, blenders, electric kettles, toasters, and electric cookers.

PowerHub

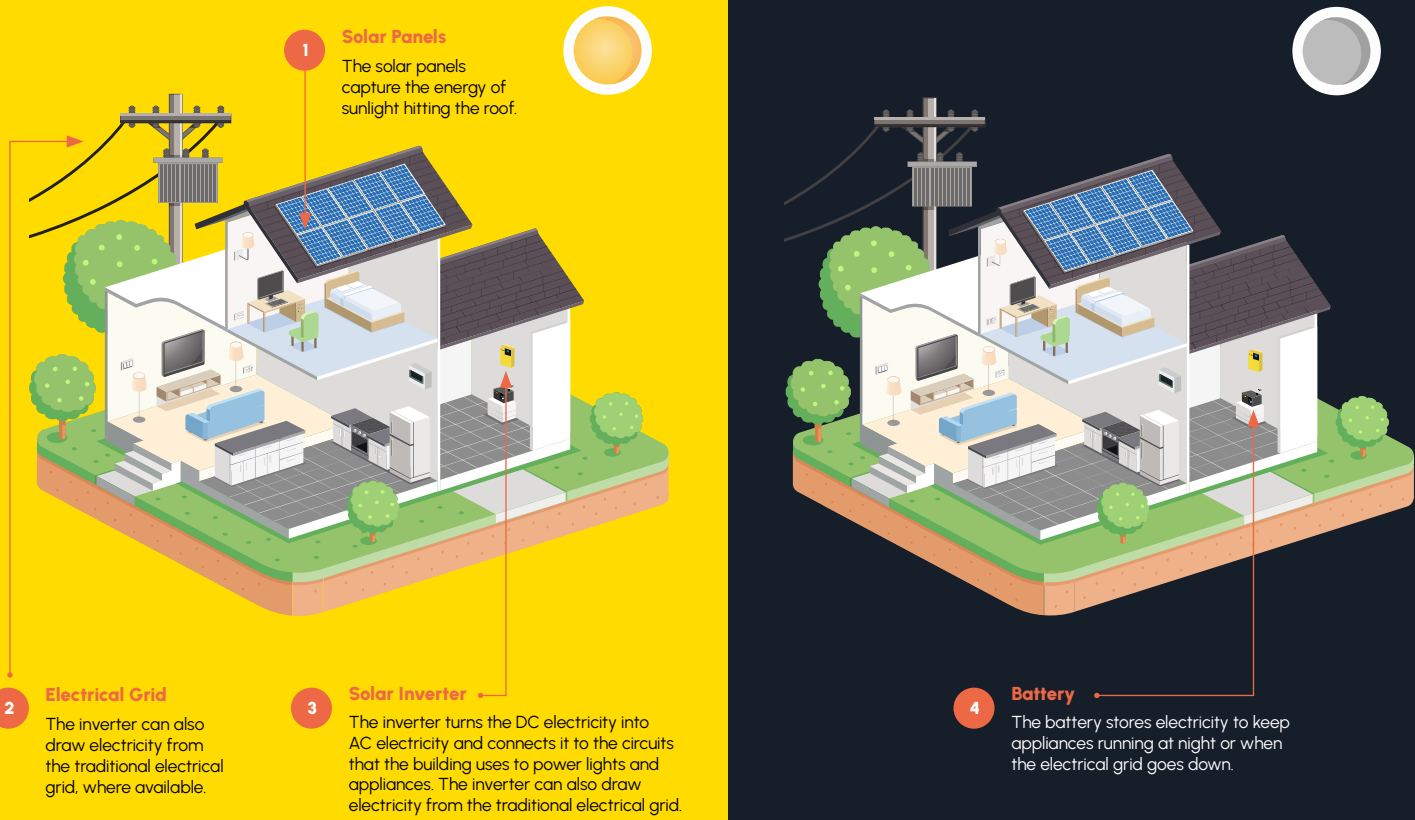


PowerHub

Multi-kilowatt AC solar and energy storage for your modern home and business. Customised to your needs and fully integrated into your home, business, or public facility's electricity distribution system to power all your standard AC appliances day and night, during outages, and when you want to go off-grid.

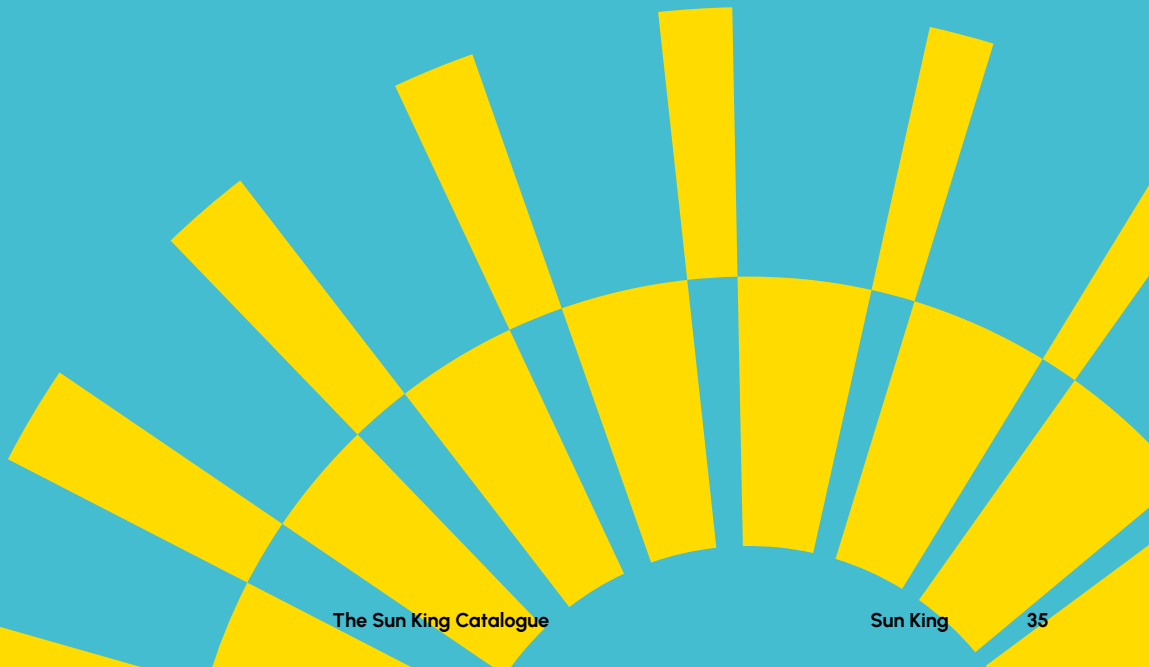
Each PowerHub system consists of solar panels, solar inverters that convert solar panels' DC energy to AC energy, and battery technology to store energy. Ranging from 2 kW to 30 kW of AC power output, PowerHub can power everything from small homes to entire apartment complexes, as well as schools, university buildings, health centres, and businesses of various sizes.

How It Works



Key Benefits

Expandable Design	PowerHub's flexible and modular technology can cater to diverse power requirements.
Dual Energy Source Connection	Connects to both solar panels and, where available, the electrical grid through the system's hybrid inverter.
Reliable Power Back Up	For those living with power blackouts and loadshedding, PowerHub acts as an 'Uninterruptible Power Supply' (UPS), switching to battery power within milliseconds of a power cut.
Smart Settings	Smart settings monitor and optimise performance. The system automatically prioritises energy sourcing, seamlessly switching between the electrical grid and solar power based on your settings and requirements.
Lithium-Ion Batteries	World-class, reliable lithium-ion batteries (LFP) with a lifespan of ten years, three times longer than lead-acid batteries.
Compact, Intuitive, and Durable Design	Compact and space-saving design that can be mounted on a wall. PowerHub technology is built to withstand extreme temperatures and harsh conditions.
GSM-Connectivity	Built-in remote performance monitoring and pay-as-you-go features, enabled by cellular GSM connectivity, simplify financing, maintenance, and servicing.



Finding the Right PowerHub Solution



The PowerHub range is flexible and designed to suit different needs. Whether for homes, businesses, or public facilities, PowerHub systems can provide reliable energy. PowerHub systems can also be upgraded later to handle more power as your needs grow.

The table below shows the available PowerHub bundle options with different sizes of inverters, solar panels, and batteries to match different energy requirements.

Table: Overview of Sun King’s PowerHub Solutions with Varied Power and Battery Capacities

	PowerHub Core (2 kW)	PowerHub Plus (3.3 kW)	PowerHub Pro (5 kW)	PowerHub Max (10 kW)	PowerHub Ultra (>15)
Inverter Power	2 kW	3.3 kW	5 kW	10 kW	15 kW - 30 kW
Battery Capacity	2.5 kWh	5 kWh	5 kWh - 10 kWh	10 kWh - 20 kWh	15 kWh - 120 kWh
Solar Power	1.8 kWp - 2.7 kWp	1.8 kWp - 3.6 kWp	2.7 kWp - 5.4 kWp	5.4 kWp - 10.8 kWp	8.1 kWp - 48.6 kWp
EasyBuy Enabled	✓	✓	✓	✓	✓
GSM Remote Monitoring	✓	✓	✓	✓	✓
Total System Recommended Retail Price Including Battery and Solar Panels (USD)	\$1,700 - \$2,000	\$2,300 - \$2,800	\$2,690 - \$4,300	\$5,500 - \$8,700	\$8,100 - \$40,200

PowerHub's Use Cases

PowerHub solutions are adaptable to most settings, from homes, urban stores, and businesses of various sizes to hospitals, rural health centres, and schools, as well as refugee camps in humanitarian settings.

Before installation, Sun King works with the customer to design a system that will meet their unique needs. Under typical household usage conditions, the system provides continuous power supply day and night. However, in instances where all the specified appliances on the next page are in use simultaneously, the system is capable of providing power for an estimated duration of up to five hours.

The table on the next page shows how the PowerHub can meet various residential, business, education, and healthcare needs.



Table: Assessment of Power Needs and Relevant PowerHub Solutions for Different Households and Facilities

Residential Settings			
Building Type	Small-Sized House (1-2 Bedrooms)	Medium-Sized House (3-4 Bedrooms)	Large-Sized House (5+ Bedrooms)
Key Appliances Requiring Power	Lighting (6 LED bulbs), television, sound system, laptop charging, phone charging, WiFi router, CCTV cameras, refrigerator, and microwave	Lighting (10 LED bulbs), 2 televisions, sound system, 2 laptops, phone charging, 1 WiFi router, CCTV cameras, refrigerator, freezer, 1 microwave, and 1 kettle	Lighting (20 LED bulbs), 3 televisions, speaker, 2 laptops, phone charging, 1 WiFi router, CCTV cameras, 1 refrigerator, 1 freezer, 1 microwave, 1 kettle, 1 washing machine, 1 water pump (< 2 hp), and 1 air conditioner (1 tonne)
Suggested Sun King Solution	PowerHub Core (2 kW): 2.5 kWh battery, 1.8 kWp solar	PowerHub Plus (3.3 kW): 5 kWh battery, 2.7 kWp solar	PowerHub Pro (5 kW): 10 kWh battery, 5.4 kWp solar

Office Settings			
Building Type	Small Office (1-5 Employees)	Medium Office (10-15 Employees)	Large Office (15-50 Employees)
Key Appliances Requiring Power	Lighting, computers, pedestal fan, printers, WiFi routers, laptop charging, refrigerators, and televisions	Lighting, computers, ceiling fans, printers, photocopy machines, WiFi routers, LED lights, laptop charging, refrigerator, water pump, and televisions	Lighting, computers, ceiling fans, printers, photocopy machines, WiFi routers, laptop charging, refrigerators, water pump, and televisions
Suggested Sun King Solution	PowerHub Core (2 kW): 2.5 kWh battery, 1.8 kWp solar	PowerHub Plus (3.3 kW): 5 kWh battery, 3.6 kWp solar	PowerHub Ultra (20 kW): 40 kWh battery, 28.8 kWp solar

Healthcare Settings			
Building Type	Health Post	Primary Health Clinic	Central Hospital
Key Appliances Requiring Power	Lighting, blood analyser, pedestal fan, phone charging, and laptop charging	Lighting, refrigeration, microscope, printer, and ceiling fans	Lighting, ultrasound, CD4 counter, oxygen concentrator, haematology mixer, ECG machine, vacuum aspirator, and GeneXpert
Suggested Sun King Solution	PowerHub Core (2 kW): 2.5 kWh battery, 2.7 kWp solar	PowerHub Plus (3.3 kW): 5 kWh battery, 3.6 kWp solar	PowerHub Ultra (30 kW): 120 kWh battery, 194.4 kWp solar

Educational Settings			
Building Type	One-Room School House	Multi-Room Primary or Secondary School	University Building
Key Appliances Requiring Power	Lighting, projector, pedestal fan, computer, printer, and e-learning tablet charging	Lighting, computers, ceiling fans, printers, photocopy machines, WiFi routers, LED lights, laptop charging, refrigerator, water pump, and televisions	Computers, CCTV cameras, projectors, fans, refrigerator, photocopy machines, sound systems, water pumps, WiFi routers, LED bulbs, focus lamps, laptop charging, water dispensers, printers, and televisions
Suggested Sun King Solution	PowerHub Core (2 kW): 2.5 kWh battery, 2.7 kWp solar	PowerHub Plus (3.3 kW): 5 kWh battery, 3.6 kWp solar	PowerHub Ultra (20 kW): 80 kWh battery, 57.6 kWp solar



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Powering access to brighter lives