



sun king™ | HOME 500X



THE SOLAR HOME SYSTEM THAT POWERS MORE APPLIANCES WITH YOUR EXPANDING ENERGY NEEDS



DIGITAL
HD LED TV



90X
BRIGHTER THAN A
KEROSENE LAMP



USB
MOBILE PHONE
CHARGING



MOTION
SENSING SECURITY
LAMP

Also comes with:



with **EasyBuy™**

The Sun King™ Home 500X with a digital HD LED TV is a complete solar powered home lighting system embedded with pay-as-you-go technology. The television itself is just one highlight of this brilliant new solar home system. The plug-and-play kit also includes four-200 lumen tube lights, a motion sensing security lamp plus a 50 watt solar panel, powered by a 141.52Wh battery control unit. Customers have the option to separately purchase additional lights and appliances such as fans, torches and radios to meet their expanding energy needs. Offering increased affordability and expandability, the Sun King™ Home 500X with a digital HD LED TV is a must-have personal power grid for all.

FLEXIBLE PURCHASE FINANCING WITH EASYBUY™

Sun King's EasyBuy™ pay-as-you-go technology enables customers to pay for their Sun King™ product in small instalments over time. EasyBuy™ also allows distributors to offer flexible purchase financing for life-changing Sun King™ products making them affordable to virtually every household.

Enabled by a suite of distributor-managed mobile and cloud-based software, EasyBuy™ allows businesses to automate asset management, streamline credit decisions, digitally manage collections activities and control inventory.

PURCHASE FINANCING WITH EASYBUY™ PRODUCTS



Onboard device management

Each EasyBuy™ product includes onboard device management technology which allows distributors to activate and deactivate products remotely based on customer payment status. The Home 500X includes GSM-based remote monitoring, allowing distributors to monitor product usage and performance to provide efficient technical support and proactive maintenance. Distributors can license purpose-built, pay-as-you-go software to manage devices and payments or integrate directly with their own software using an included API.



Compatible with major Pay-As-You-Go platforms

All EasyBuy™ products are compatible with major pay-as-you-go platforms which include cloud-based software and mobile-based tools which enable back office and distributed field teams to manage sales, repayment, inventory, field staff and client activities. Licenses sold separately.

PAY-AS-YOU-GO BUSINESS SUPPORT FROM SUN KING™

Sun King™ is here to help distributors build successful pay-as-you-go initiatives. Ask us how we can help you with:

1. Customized EasyBuy™ software tools to build better credit and collections systems.
2. Data analytics insights and services.
3. Training and advisory related to sales force, marketing, financial planning and operations.

PAYING WITH EasyBuy™



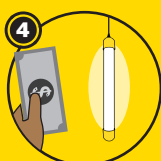
Customer makes a down payment with cash or mobile money.



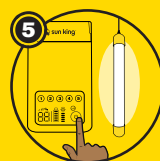
A sales agent records the customer's information and activates the product.



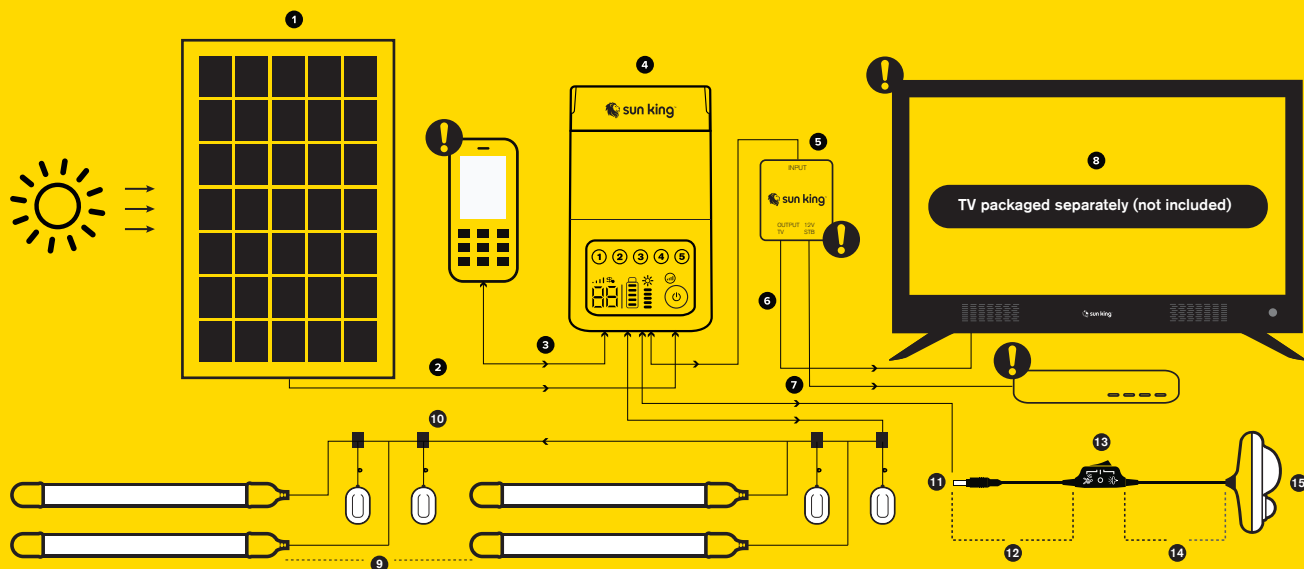
Customer receives a unique key code via SMS to activate the unit or the device is remotely activated by the distributor for the pre-paid amount.



The customer makes scheduled payments for the product. If a payment is not made, the product will not work.



The system unlocks permanently when the customer completes payment.



WHAT'S INCLUDED

- 1 50 watt solar panel
 - 2 6 metre cable
 - 3 USB cable for mobile phone charging
 - 4 Battery control unit
 - 5 STB junction box
 - 6 80cm set top box output cable
 - 7 80cm Digital TV output cable
 - 8 Sun King™ HD LED solar TV
 - 9 4 tube lights with wall-mountable switches
 - 10 Mid-cable junction box
 - 11 Plug
 - 12 2 metre cable from plug to switch
 - 13 3 mode switch (motion and light sensing control)
 - 14 5 metre cable from switch to lamp
 - 15 Motion sensing security lamp
- ! Mobile phone, STB junction box, set top box and TV are not included

PRODUCT SPECIFICATIONS

Total Lumen Output	900 lumens		
* Runtime	19 hours with all lamps on Turbo Mode Up to 8 hours with all lamps on Turbo Mode and 24 Inch TV at Default Mode Up to 8 hours with all lamps on Turbo Mode and 32 Inch TV at Default Mode		
* Assumed Usage Profile for Runtime)	Time	Lamps Only	TV and Lamps
	Daytime (with solar panel charging)	-	3 hours of TV viewing*
	Night-time	19 hours of light	6 hours of TV viewing* 8.5 hours of light
USB Phone Charging Port	5V 1.8A		
TV	HD digital TV 24" / 32"		
** Battery	11.1V 141.52Wh lithium-ion NMC battery		
Solar Panel	50W 16V polycrystalline solar panel		
Battery Indicator	While in use, digital LED meter displays remaining battery power. On low battery, the USB discharge output will be shut down.		
Charging Indicator	Digital LED meter displays charging effectiveness (for optimal device charging, install the solar panel appropriately to maximize its exposure to sunlight).		
Power Port	Four 12V(+/-3V) Ports. One port has a TV communication port designed for TV powering. The power ports' minimum voltage may reach 9V, which some appliances might not be fully compatible with.		
Enclosure	Rugged ABS. Designed for indoor use only. Keep away from water.		
Available Daily Energy	175 Wh/day		
PAYG Enforcement	Keypad or optional GSM-based activation using Sun King™ Link API compatible with major PAYG software platforms (licensed separately).		

* Mobile phone charging can reduce the daily runtime of the lights and TV.

* The assumed usage profile of the TV kits may vary for both daytime and night-time use.

** Battery and other components are irreplaceable.

TV SPECIFICATIONS

TV Antenna	DVB-T2, DVB-S2, DVB-C, Analogue- PAL
Input	USB (MP4 / MP3), HDMI
Display	HD16:9 LED screen
OSD Language	Amharic, English, French, German, Hindi, Russian, Kinyarwanda, Spanish, Swahili, Tigrinya, Luganda.
Audio	Stereo speakers; 3.5mm earphone
Recording	USB recording for digital broadcast content.

SUN KING™ DIGITAL HD LED TV

With its built-in, free-to-air digital TV tuner and optional PAYG security, Sun King™ Digital TV is an obvious choice for consumers and distributors alike. In addition to broadcast content, the TV will play content from USB flash disk or HDMI video input. For PAYG distributors, we paid careful attention to tamper-proofing. By default, the TV actively communicates with the solar home system, and displays a "locked" message unless powered by an authenticated, paid-up Sun King™ Home 500X (it won't work, for example, when connected to a car battery). But we also left room for compatibility. An optional unlock code can be provided for each TV once payments are completed. Entered via the TV remote control, the code unlocks the TV permanently, allowing it to be powered by any 12-volt DC power source.

KEYPAD OR GSM-BASED PAYG ENFORCEMENT

Customers enter activation codes using the on-product keypad to activate the product. Optional GSM-enabled models rely on global cellular network to automatically activate product following a registered payment.

AN INNOVATIVE BATTERY, FOR VARIABLE WEATHER AND EXTENDED LIFESPAN

We used our latest lithium-NMC batteries, and on top of them, added a novel battery management strategy. The battery itself is significantly oversized in capacity, while the daily battery discharge is limited by software to a fixed, generous supply. This yields two major benefits. First, it leaves plenty of leftover energy for cloudy days, delivering the reliable performance (including TV runtime) that Sun King™ users expect. Second, it guarantees an extended battery lifespan. We can expect at least 2,500 daily software-limited cycles, meaning 7 years of maintenance free battery life.

ENERGY EVERYONE CAN AFFORD

Sun King is the world's leading off-grid solar energy company with cutting-edge product design, affordable financing, and a grassroots installation model to provide energy to the 1.8 billion consumers across Africa and Asia who lack access to reliable electricity. Founded in 2007, Sun King sets the gold standard for off-grid solar performance and design as part of its mission: power your life.

Power Your Life

Please contact our team for samples and partnership inquiries: sales@sunking.com

Visit our website: www.sunking.com

