



Ambalian Company Limited

Suite 1, Mezzanine Floor, South Gate Centre

Mkoma Road, South-B,

PO Box 22932 – 00100 Nairobi.

Tel +254 - 20 – 266 2166.

Cell +254 – 722 – 806 752.

KRA PIN. P051328875T.

KRA VAT no. 0328138N

Email info@ambalian.co.ke

URL www.ambalian.co.ke

Our ref PGuide; S&HP Off Grid & Hybrid

Date November, 2018

Off Grid & Hybrid Solar Power Supplies (S&HP21 – 26)

Off Grid Solar Power supplies come into their own to supply areas without alternative supply and are designed with an overcapacity to cover the days when the solar insolation is weak.

Hybrid Solar Power supplies differ from the off grid ones in that they can use mains power as back up and thus integrate solar and mains in one package. They can also be installed in off-grid locations.

In both cases, the package costs include **installation** within a 30 KM radius of Nairobi town centre. Distance between 30 and 60 KM attract an extra Kshs 45 per KM of travel time. We are open to discussions regarding distances exceeding 60 Km from Nairobi and in some areas we can introduce you to qualified installers.

Below is a list of key items that make up each power supply

 <p>Solar panels in sizes of 90, 140, 190 and 240 Watts.</p>	 <p>Lumiax 20 Amps MPPT charge controller..</p>	 <p>Phocos Charge controllers, IP68.</p>
 <p>"Victron Phoenix PH350 True sine wave Inverter</p>	 <p>CEIL (Chloride Exide India Limited) NXT sealed maintenance free battery</p>	 <p>MUST EP3000 series Inverters. 2, 3, 4 and 6 KW</p>

Below are costs estimates of sample Off Grid systems.

Items in the quote	What is in the Kit	Cost (Kshs)
<u>S&HP21</u> 140 Watts Solar. • Lights only.	<ul style="list-style-type: none"> 350 Watts True sine wave inverter (Victron PHX350). 1 X 140 watt Solar PV panels and 1 X 100 AH maintenance free Battery Accessories, Transport and Installation. 	57,320
<u>S&HP22</u> 280 Watts Solar. • Lights & TV .	<ul style="list-style-type: none"> 350 VA True sine wave inverter (Victron PHX350). 2 X 140 watt Solar PV panels and 1 X 200 AH maintenance free Battery Accessories, Transport and Installation. 	93,100
<u>S&HP23</u> 550 Watts Solar. • Lights & TV.	<ul style="list-style-type: none"> 800 VA True sine wave inverter (Victron Phoenix 800/24). 2 X 275 watt Solar PV panels and 2 X 200 AH maintenance free Batteries Accessories, Transport and Installation. 	194,730

Below are costs estimates of sample Hybrid systems.

Items in the quote	What is in the Kit	Cost (Kshs)
<u>S&HP31</u> 140 Watts Solar. • Lights only.	<ul style="list-style-type: none"> 850 Watts True sine wave inverter (Schneider electric AEH-SHI01-0850). 1 X 140 watt Solar PV panels and 1 X 100 AH maintenance free Battery Accessories, Transport and Installation. 	53,820
<u>S&HP32</u> 420 Watts Solar. • Lights & TV .	<ul style="list-style-type: none"> 850 VA True sine wave inverter (Schneider electric AEH-SHI01-0850). 3 X 140 watt Solar PV panels and 1 X 200 AH maintenance free Battery Accessories, Transport and Installation. 	93,780
<u>S&HP33</u> 620 Watts Solar. • Lights & TV.	<ul style="list-style-type: none"> 1.5 KVA True sine wave inverter (Schneider electric AEH-SHI01-01500). 2 X 310 watt Solar PV panels and 2 X 200 AH maintenance free Batteries Accessories, Transport and Installation. 	189,320
<u>S&HP31</u> 1.1 KWp Solar • Lights, TV & Fridge.	<ul style="list-style-type: none"> 1.5 KVA True sine wave inverter (Schneider electric AEH-SHI01-01500). 4 X 275 watt Solar PV panels and 2 X 200 AH maintenance free Batteries Accessories, Transport and Installation. 	231,080
<u>S&HP31</u> 1.1 KWp Solar • Lights, TV & Fridge.	<ul style="list-style-type: none"> 1.5 KVA True sine wave inverter (Scott Power 2 KW). 4 X 275 watt Solar PV panels and 2 X 200 AH maintenance free Batteries Accessories, Transport and Installation. 	362,910

We **Warrant** the solar PV panels for 5 years and the rest of the installation for 1 year from the date of installation.

Please revert back for any queries and clarifications.