



FUTURE VISION PROFIT
GROWTH TRUST



SOLAR PACKAGES



5kW Package

- 1 x 5kW Sunsynk Hybrid Inverter
 - 1 x 5kW Sunsynk LiFePO4 Battery
 - 8 x 455W Himin Mono Solar Panels
- POA



5kW Package

- 1x 5kw Sunsynk Inverter
 - 1 x 10kw Sunsynk LiFePO4 Battery
 - 10 x 455W Himin Mono Solar Panels
- POA



8kW Package

- 1 x 8kw Sunsynk Inverter
 - 1 x 10kw Sunsynk LiFePO4 Battery
 - 10 x 455W Himin Mono Solar Panels
- POA

SOLAR PACKAGES



12kW Package

- 1 x 12kw Sunsynk Invertor
- 1 x 16kw Sunsynk LiFePO4 Battery
- 12 x 455W Himin Mono Solar Panels
- POA



16kW Package

- 1 x 16kw Sunsynk Invertor
- 1 x 16kw Sunsynk LiFePO4 Battery
- 14 x 455W Himin Mono Solar Panels
- POA

Packages and average kWh generation P/day

Package	5kW Package	8kW Package	12kW Package	16kW Package
Average kWh generation:	15-20kWh Per day	20-25kWh per day	22-28kWh per day	30-35kWh per day
Inverter	5kW	8kW	12kW	16kW
Battery	5/10kW	10kW	16kW	16kW
Solar Module	455W	455W	455W	455W
- Quantity	8/10	10	12	14




AVERAGE ELECTRICITY CONSUMPTION OF TYPICAL HOME APPLIANCES

APPLIANCE DESCRIPTION	POWER USE (WATTS)	AVE. HRS USE IN DAY	APPLIANCE DESCRIPTION	POWER USE (WATTS)	AVE. HRS USE IN DAY
LIGHTING			REFRIGERATION		
LED downlight	5	5	Chest freezer	105	4
Halogen downlight	50	5	Fridge – with freezer	158	5
Incandescent bulb	60	5	Fridge – no freezer	250	5
Compact fluorescent light	18	5	HOME MAINTENANCE		
LED lamp	8	5	Dishwasher	2 500	0,9
LED security light	10	8	Vacuum cleaner	1 000	0,5
Halogen security light	150	8	LAUNDRY		
COOKING			Iron	980	0,4
Coffee machine	670	0,5	Steam iron	1 235	0,8
Electric stove	3 000	2	Washing machine	3 000	0,75 *
Frying pan	1 250	0,4	Tumble dryer	3 300	0,5 *
Kettle	1 900	0,3	* indicated per load		
Hotplate – large	2 400	0,3	OTHER		
Microwave oven	1 230	0,8	Burglar alarm	10	24
Toaster	1 010	0,3	Cellphone charger	9	2
Snackwich maker	1 200	0,3	Laptops	30-50 (4 standby)	
Food processor	166	0,2	Computer	134	1,5
GEYSER			Hair dryer	647	0,1
Electric geyser	2 600	4,4	Radio	12	3
Solar water heater, with electric backup	2 600	1,7	Pool pump – variable speed drive	200 to 1 200	wint/sum 2 x 4/6h
Heat pump	1 250	2,5			

CALCULATE YOUR USAGE

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
APPLIANCE DESCRIPTION	POWER USE PER UNIT (WATTS)	HOURS/DAY IN USE (HOURS)	NUMBER OF UNITS	AVERAGE NUMBER OF WH PER DAY (WATT X APPLIANCES HOURS/1 000)	AVERAGE KWH PER DAY
e.g. LED lamp	8 W	6 hours	7 lights	$8 \times 7 \times 6 = 210 \text{ Wh/day}$ divide by 1 000 to get kWh/day	0,336 kWh
To determine your daily electricity consumption, use this simple formula: $\frac{\text{(Watts x hours used per day x number)}}{1\ 000} = \text{daily consumption in kilowatts}$					
In essence, therefore, you are multiplying column 2 by column 3, and then by column 4 (if there is more than one item). This final figure is then divided by 1 000 to convert from watt-hours to kilowatt-hours, because 1 kilowatt (kW) = 1 000 watts (W). Fill in the total in column 6 to get an estimate of your daily use per item.					

INCLUDED IN YOUR SOLAR SOLUTION PV SYSTEM PACKAGE, THE FOLLOWING KEY COMPONENTS:

- PV Modules 
- Inverter (s) 
- Battery (ies) 
- Mounting System
- Inverter and Solar Distribution Boxes
- Installed by registered Electrical Contractors, PV GreenCard Certified & Sunsynk Master Installers, including:
 - Supplementary COC
 - Signing off by a registered ECSA Professional Engineer
 - Assistance with SSEG process

QUALITY

- Himin Tier 1 Solar Panels: Manufactured since 1995 , being around to honor warrantees.
- Sunsynk Products: Complying with excellent international standards. All Inverters are on the Approved PV Inverter list of CoCT.
- Electrical Contractors: PV GreenCard Certified, Sunsynk Master Installers.

ADDITIONAL INFO:

- Sunsynk Inverter offers the function of an UPS for laptops/computers, when power goes off.
- The installer goes through the system with each client after installation and goes through an onboarding process.