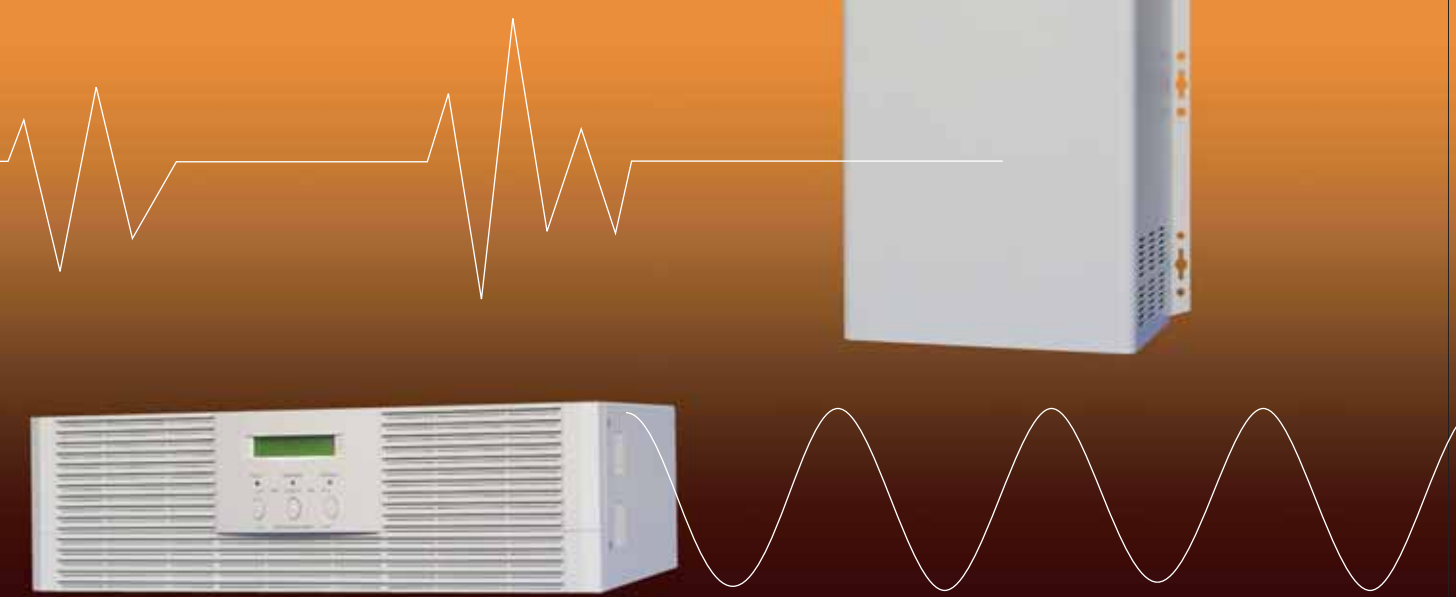


# Home UPS

Pure Sinewave Inverter

Inverter + Charger + Transfer Switch  
+ Solar Power In One package  
For Home & Office



# HOME-UPS Specification's



- Built in Programmable Battery Charger
- 24 hour operation from inverter
- Self diagnostic on start-up
- High Efficiency
- Designed to Operate in Harsh Environments
- Controllable, Programmable and Removable LCD Control Panel
- Parameters pre-settable for different battery AH Rating
- THD less than 3% total Harmonic Distortion
- High Efficiency, designed to save electricity
- Low Heat dissipation over for long run operation's
- Designed to operate under harsh environments
- Automatic transfer when power fails

Capacity		VA / Watt	1.2KVA 800 W	2.4KVA 1600 W	3.6KVA 2400 W	5KVA 4000 W	6KVA 6000 W	8KVA 8000 W
Input	Nominal Input Voltage		220/230/240Vac					
	Voltage Range	Acceptable Voltage Range	120~270Vac					
		Frequency	45Hz ~ 70Hz Auto-sensing					
		Under voltage Transfer	120Vac+/-2%					
		Under voltage Return	130Vac+/-2%					
		Over voltage Transfer	270Vac+/-2%					
		Over voltage Return	260Vac+/-2%					
Output	Voltage Selection		110/115/120Vac or 220/230/240Vac Re-Settable Via LCD panel					
	Voltage Regulation (Battery Mode)		<3% RMS for Entire Battery Voltage Range					
	Frequency Regulation	Line Mode	50Hz or 60Hz					
		Battery Mode	±0.1Hz					
	Power Factor		0.67	0.8	1.0			
	Wave form		Pure Sine Wave					
Efficiency		>75%	>80%					
Protection	Overload Protection	Line Mode	110%~150% for 30 sec; >150% for 200ms, then UPS Shuts Down					
		Battery Mode	110%~150% for 30 sec; >150% for 200ms, then UPS Shuts Down					
	Short Circuit Protection	Line Mode	Circuit Breaker					
		Battery Mode	Electronic Circuit					
DC Start	Cold Start		Yes					
Transfer Time	Typical		< 8~ 10 ms.					
Battery	Battery Voltage		12Vdc	24Vdc	24Vdc	24Vdc	48Vdc	48Vdc
	Backup Time		According to the Batteries Used and Load – See Discharge Specs					
	Recharging Current		>15A ~ 40A	>25 A ~ 50A		>25 ~ 60A		
Display LCD	LCD		UPS status, I/P&O/P Voltage Frequency, Load Level, Battery Voltage & Level, Temperature, Model					
	LED		Normal (Green), Warning (Amber), Fault (Red)					
Audible Alarm	Battery Mode		Beeping every 4 seconds					
	Low Battery		Beeping every second					
	UPS Fault		Beeping Continuously					
	Overload		Beeping twice per second					
Environment	Operational Temperature		0-40 degree C; 32-104 degree F					
	Relative Humidity		0-95% non-condensing					
	Audible Noise		Less than 55dBA (at 1M)					
Physical	Dimension's (W*H*D) mm		298*400*150	298*450*190		415*600*260		
	Nett Weight (Kgs)		12 Kg	24 Kg	31.5 Kg	49.2 Kg	51.4 Kg	53.6 Kg
Safety Conformance	Safety Standard		EN62040-1-1					
	EMC		EN62040-2					
	Marks		CE, CUL, UL					

# HOME-UPS Series

## ■ Uninterruptable Power Source

The Home UPS is a microprocessor based Pure Sine Wave UPS with remarkable features and performance, which may be used widely in different applications. The range of product offers durable and reliable source of backup power. It is one of very few products on the market offering unsurpassed clean, True Sine Wave power combined with a 24 Hour operation capability and is cable of delivering uninterrupted power to almost any application or appliance.

Of the many appliances or products other products are not able to power; The Home-UPS Range is capable of supplying power to;

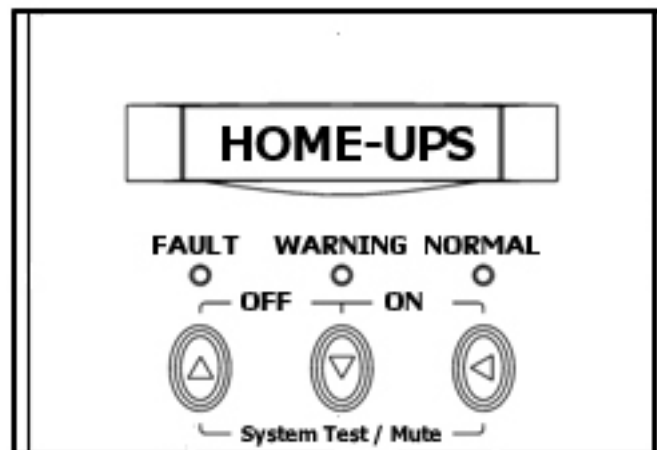
- Home Appliances
- Consumer Electronics
- Lighting
- Garage and Gate Motors
- Heating Systems
- Fridges
- Air Conditioners
- Water Pumps
- Laser printers
- Office Equipment amongst others.

## ■ Durability

The units produce excellent results in harsh environments and have built in isolation transformers not allowing interferences or reducing the potential of Electro-magnetic forces from equipment or appliances to hamper its operation.

## ■ Operation and Programmability

LCD Menu Options



- Output Voltage & Frequency Adjustment
- Input Voltage and Frequency Display
- Output Voltage and Frequency Display
- Charging Current Adjustment
- Battery Status Display
- Output Power Usage Display
- Temperature Display
- History Events

220VAC \ 230Vac \ 240VAC 50Hz or 60Hz  
 Displays the present Input Voltage and Frequency  
 Displays the present Output Voltage and Frequency  
 100A/h \ 200A/h \ 300A/h \ 400A/h \ 600A/h  
 Battery Voltage \ Battery Capacity  
 Percentage of Output Power Usage is displayed  
 Display of Internal Temperature  
 New & Old AC Fail and Overload Counts

## ■ Fan Control

The Home-Ups has Intelligent fan speed control and detection

The 4-Stage fan speed control is load dependant and provides fan failure detection sending a warning messages to the LCD panel.

## ■ Generator Integration

The Home-ups series may be integrated with a generator in order to increase backup Time or provide an immediate backup during the start-up of the generator. The Over Voltage Protection allows monitoring and switchover on over voltage conditions.

**The units currently boast one of the best price / performance ratios in the industry.**

## ■ Other True Sine Wave inverters:

Other products currently on the market, either True Sine wave or Modified do not always have the capability of supplying a reliable source of power for either part or the entire household or business. High quality industrial communication Inverters supplied to the likes of the telecommunications and cellular industries generally only supply power to standard linear loads without a varying output requirement. When these units are put into the household or business environment, where high peak demands are required the units very often fall short, as with my personal experience have up to a 20% failure rate. This is not due to the product being badly manufactured. It was not designed for the application at hand.

## ■ Modified Wave form inverters:

Modified sine wave inverters are not meant to be operated under a high load demand for hours at a time, and should only be utilized as a temporary basic backup solutions, such as a few lights and tv only, or computer, at not more than 1000 watts, 2000VA.

Other Inverter, UPS related advertisements may be misleading as to the amount of power to be supplied for the period necessary.

## ■ Generator Vs Home-Ups

Generators are bulky, cumbersome, costly, high maintenance, noisy and not very environmentally friendly. Although they do have their own place in the market, should be utilized for their specific purpose.

As the demand has grown for backup systems we have seen massive increases in fuel prices. These products currently pollute many suburbs with their noise and emissions generated when in use. The current laws concerning noise emissions for 45db at night and 55db during the day are very rarely compliant. They are not very user friendly and at the best of times are harm full both to the users, dependants and the environment.

Although some generators may initially be an inexpensive source of backup power, over the months and years costs add up rather dramatically. They have many moving parts requiring maintenance the same as any other petrol or diesel driven engine. They currently cost in the order of R 7.20~R 15.00 per KW per hour to operate. Should you not utilize these items at a 50% or more capacity of the unit they are likely to be damaged. Many of the cheaper generator solutions do not offer a very stable regulated output.

There has been many instances of appliances and products being damaged where ups's have had to be purchased over and above the generator in order to try and maintain a stable source of energy.

## ■ Home Ups-Warranty

As a standard offered by the manufacturer of the Home-Ups Series Products, all units supplied have a 1 Year Manufacturer and components Warranty, and a 7 days on site service and replacement after signed off, and commissioned. Items must be installed with accordance to SANS0142-1/2006 for the wiring of premises' for low voltage installation's.

Batteries supplied have a one year warranty based on faulty cells, and not capacity retention.

It is the requirement of the customer and sales person alike to ensure an appropriate battery set is supplied with all products based on load and backup time requirements.