High Frequency Off Grid Solar Inverter

WirP1300 Series (1KVA-1.5KVA)

Back panel printing description

- Simulated sine wave inverter
- Built-in 50A PWM Solar Charge Controller
- MFD (multi-function display)
- 20A standard charging current from utility
- AC/solar priority for output via MFD
- 3 steps charging algorithm
- Overload & short-circuit protection
- Battery reverse polarity protection
- Deep discharge protection
- Auto restart while AC/solar is recovering

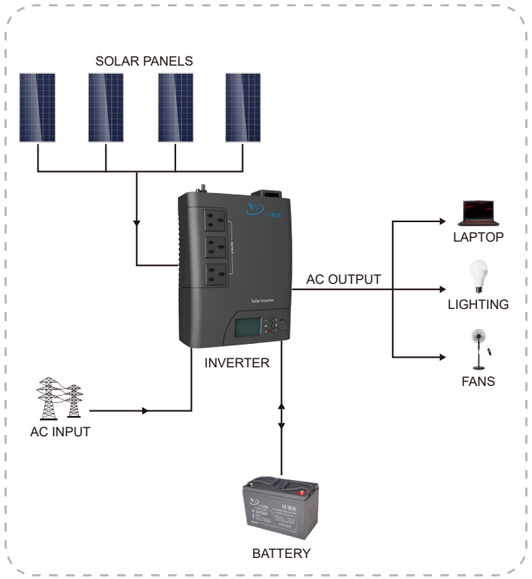
Introduction

WirP1300 is a cost effective , intelligent hybrid off grid solar inverter with power range 1000VA 1500VA. The LCD display offers friendly user-configurable button adjustment such as input voltage setting, AC/solar charger priority , mute setting. When battery voltage is low, it's will automatically switch to AC grid to supply continuous power to the loads. It suitable for personal home use.

Back panel printing description

1. Output Receptacle (s)
2. LCD display
3. Status indicators
4. Setting button
5. Power switch
6. External battery connectors
7. FAN
8. Solar panel terminal
9. Input circuit breaker (plastic case)
10. AC input

Solar system connection



Specification

MODEL			WirV13-1012	WirV13-1512	WirV13-1024	WirV13-1524
Nominal Battery System Voltage			12VDC	12VDC	24VDC	24VDC
NVERTER OUTPUT	Rated Power		1000VA/600W	1500VA/1000W	1000VA/600W	1500VA/1000W
	Waveform		Simulated Sine-wave			
	Nominal Output Voltage RMS		230V			
	Output Voltage Regulation		+10/-18%			
	Output Frequency		50Hz/60Hz ±1 Hz			
	Inverter Efficiency(Peak)		>80%			
	Line Mode Efficiency		>98%			
	Typical Transfer Time		Typical 6~8ms 10ms max			
AC INPUT	Voltage		230VAC			
	Selectable Voltage Range	Narrow	175~260VAC			
		Wide	140~270VAC			
	Frequency Range		40Hz-70Hz (Auto sensing)			
BATTERY	Nominal Input Voltage		12VDC		24VDC	
	Minimum Start Voltage		10.5VDC		21.0VDC	
	Low Battery Alarm		10.5VDC		21VDC	
	Low Battery Cutoff		10.0VDC		20.0VDC	
	High Voltage Cutoff		15.5VDC (max)		31.0VDC (max)	
SOLAR CHARGER & AC CHARGER	Maximum PV Charge Current		50A (max)			
	Maximum PV Array Power		450W/750W		900W/1500W	
	PWM Range @ Operating Voltage		16~55VDC			
	Maximum PV Array Open Circuit Voltage		55VDC			
	Maximum Efficiency		>95%			
	Standby Power Consumption		<2W			
	AC Charger Voltage		14.4V(max)		28.8V(max)	
	AC Charging Current		10A / 20A			
BYPASS & PROTECTION	Nominal Input Frequency		40Hz – 70Hz			
	Overload Protection (SMPS Load)		FUSE			
	Output Short Circuit Protection		FUSE			
	Bypass Fuse Rating		10A			
	Max Bypass Current		10Amp			
MECHANICAL SPECIFICATIONS	Machine Dimensions (W*H*D)		231*290*92mm			
	Package Dimensions (W*H*D)		595*375*315mm			
	Net Weight (kg)		2.8		4	
	Gross Weight (kg)		3.5		4.7	
OTHER	Operation Temperature Range		0°C~50°C			
	Audible Noise		50dB MAX			
	Display		LED+LCD			
	Loading(20GP/40GP/40HQ)		1700pcs / 4100pcs			

The technical specifications of this document are subject to change without any notice