

Off Grid Hybrid Pure Sine Wave Inverter Controller Rainbow Star Plus Series 1000Va-5000Va (1ph in/1ph out)

Key Features

Pure sine wave inverter High frequency full bridge design .
Built-in PWM solar charge controller
Selectable input voltage range for home appliances and personal computers
Selectable charging current based on applications
Configurable AC/Solar input priority via LCD setting
Compatible to mains voltage or generator power
Parallel operation with up to 4 units only available for 4KVA/5KVA (Optional)
Auto restart while AC is recovering
Overload and short circuit protection
Smart battery charger design for optimized battery performance
Cold start function
LED & LCD Display on the front panel shows the working and failure state



Application

Supply the reliable long back up time power for the home appliances and office appliances Solar power systems etc.

Technical Specification

Model	RS Plus 1K	RS Plus 2K	RS Plus 3K	RS Plus 4K	RS Plus 5K
RATED POWER	1000VA/800W	2000VA/1600W	3000VA/2400W	4000VA/3200W	5000VA/4000W
INPUT					
Voltage	208/220/230/240 VAC				
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)				
Frequency Range	50 Hz/60 Hz (Auto sensing)				
OUTPUT					
AC Voltage Regulation (Batt. Mode)	230 VAC ± 5%				
Surge Power	2000VA	4000VA	6000VA	8000VA	10000VA
Efficiency (Peak)	90~93%	93%			
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)				
Waveform	Pure sine wave				
BATTERY & AC Charger					
Battery Voltage	12VDC	24VDC		48 VDC	
Floating Charge Voltage	13.5VDC	27VDC		54 VDC	
Overcharge Protection	15.5VDC	30VDC		60 VDC	
Maximum AC Charge Current	10A or 20A	20A or 30A		20A or 30A	
SOLAR CHARGER					
Maximum PV Array Open Circuit Voltage	40VDC	80VDC		105VDC	
Solar Charge Current	50A				
Standby Power Consumption	1W	2W		2W	
PHYSICAL					
Dimension D x W x H (mm)	95*240*316	100*272*355		120*295*468	
Net Weight (kgs)	5		6.9	9.8	9.8
OPERATING ENVIRONMENT					
Humidity	5% to 95% Relative Humidity(Non-condensing)				
Operating Temperature	0°C - 55°C				
Storage Temperature	-15°C - 60°C				