# **UPSEN**

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

## **Key Features**

Pure sine wave inverter High frequency full bridge design . Built-in MPPT 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 6 units only available for 4KVA/5KVA Auto restart while AC is recovering Overload and short circuit protection Smart battery charger design for optimized battery performance Cold start function



### Application

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

#### **Technical Specification**

<b>T</b>	<b>DO</b> 4000	<b>DQQQQ</b>	<b>DQQQQ</b>	504000	DOCOOD
Technical Specification	RS1000	RS2000	RS3000	RS4000	RS5000
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	24VDC			48 VDC	
Floating Charge Voltage	27VDC			54 VDC	
Overcharge Protection	30VDC			60 VDC	
Maximum AC Charge Current	20A			25 A	
SOLAR CHARGER	•			•	
Maximum PV Array Open Circuit Voltage	60VDC/150Vdc (Optional)			110VDC/150Vdc (Optional)	
Mppt Range @ Operating Voltage	25-60Vdc/25-145Vdc (Optional)			60-110Vdc/60-145Vdc (Optional)	
Maximum Solae Charge Current	25A			80A	
Max Efficiency	>96%				
Standby Power Consumption	2W				
PHYSICAL					
Dimension, D x W x H (mm)	350 x 130 x 340			380 x 130 x 465	
Net Weight (kgs)	7.4	7.6	8	12.5	13.5
OPERATING ENVIRON	/IENT				
Humidity	5% to 95% Relative Humidity(Non-condensing)				
Operating Temperature	0°C - 55°C				
Storage Temperature	-15°C - 60°C				

**UPSEN**