

## Connection Diagram

### I-P-SP-Series System



#### Function

1. AVR function



2. AC charge function



### 3. Inversion mode

#### 1 Normal inversion mode



#### 2 Sleeping mode



### 4. UPS function

#### 1 AC first, DC Backup Mode



#### 2 DC First, AC Backup Mode



## Application

1. Back-up UPS system for industrial, commercial, household, etc
2. Mobile power and standby power for areas that are lack of utility.
3. Off-grid solar & wind power system

## Features

1. pure sine wave output, full power
2. CPU management and control, modular design
3. LCD display, can visually display various parameters
4. Multifunction design, can set a variety of working mode
5. External battery connection, convenient to expand use time and back-up power time; user can connect as many batteries as needed
6. With super load carrying ability and high load capacity, this series of inverters cannot only drive resistance load; but also various kinds of inductive loads, such as motor, air conditioner, electric drills, fluorescent lamp, gas lamp, etc. It can drive almost any kinds of load
7. Low frequency circuit design, good system stability, low failure rate and long service life (under proper operation, it may be as long as 5 years)
8. Perfect protection: low voltage protection, over voltage protection, overheat protection, short-

circuit protection, overloads protection; alarm alert

9. CE / EMC / LVD/ RoHS Approvals

10. Two years warranty, life-long technical supports

## Technical parameter

Model	500VA	
Rated Output Capacity	350W	
Peak Power	700W	
Battery Voltage(DC)	12V/24V(optional)	
Size W×D×H(mm)	335*165*375	
Packing Size W×D×H(mm)	355*185*395	
Net Weight (kg)	7	
Gross Weight (kg)	8	
General Parameter		
Working Mode	1	Utility First, Battery Standby
□Setting□	2	Sleep Mode,no utility,load's power higher than 5% of rated power, start to work automatically
	3	Battery first, utility standby
AC Input	Voltage	220V±35% or 110V+35%□optional□
	Frequency	50Hz±3% or 60Hz±3% □optional□
AC Output	Voltage	220V±3% or 230V±3 or 240V±3% or 100V±3% or 110V±3% (optional)
	Frequency	50Hz±0.5 or 60Hz±0.5 (optional)
Battery charge	AC Charge Current	0~15A
	Charge Time	Depend on battery capacity and quantity
	Battery Protection	Automatic detection, Charge and discharge protection,Intelligent Management
Display	Display Mode	LCD
	Display Information	Input voltage,output voltage,output frequency,battery capacity,Load condition,Status Information
Output Wave Type	Pure sine wave output,waveform distortion rate≤3	
Overload Ability	□120% 1 min,□130% 10s	
Power Consumption	Sleep Mode	1~6W
	Normal Mode	1~3A
Conversion Efficiency	80%~90%	
Transfer Time	□5ms □AC to DC / DC to AC□	
Protection	Overload output,short-circuit,high-voltage input,low-voltage input,overheat	
Environment	Temperature	-10°C□50°C
	Humidity	10%□90%
	Altitude	≤4000m

