

# POWER INVERTER MANUAL



**RESTAR SOLAR RENEWABLE ENERGY CO.,LTD**

No.30 Yongshun Road, Zhulin Town, Jintan District, Changzhou, Jiangsu Province, China

[www.restarsolar.com](http://www.restarsolar.com)

[sales@restarsolar.com](mailto:sales@restarsolar.com)

+86 512-66292101

## Please read and remember the safety notice

In order to ensure reliable service for you, inverter must install and use properly. Before install and use, please read the installation and operating instructions. Special attention should be warned of this manual and warning notices, some conditions of use and practices may possibly lead to Inverter damaged we advise you with caution, certain use conditions and practices that could cause bodily injury, as a clear warning statement. Before using the inverter please read all of the prompts.










Please read this manual in order to achieve the right to use. Particularly in the use, please remember to read "Safety Precautions" section, to ensure safe use. After reading the instruction manual, please proper care, to be retained for future reference.

In order to avoid damage to you and others, here we listed below safety notice. Please make sure to obey and refer for the following meaning of the marks.

<div style="text-align: center; margin-bottom: 20px;">  <h1 style="margin: 0;">Warn</h1> </div> <p>The mark means: It may cause the person Serious injury or death.</p>	<div style="text-align: center; margin-bottom: 20px;">  <h1 style="margin: 0;">Warn</h1> </div> <p>The mark means: It may cause the person injuries or other articles damage</p>
<div style="text-align: center; margin-bottom: 20px;">  </div> <p>The mark means for prohibited item</p>	<div style="text-align: center; margin-bottom: 20px;">  </div> <p>The mark means for mandatory item</p>



# WARN

<p>When connect with the battery will produce spark ,connect the former to ensure that no flammable gas.</p>  <p><b>FLAMMABLE GASES</b></p> <p>Battery charging, discharging Will produce in flammable gases, Should be well-ventilated, do not put in the place may accumulate flammable gases</p>	<p>Output can not be parallel with the mains</p>  <p><b>FORBIDDEN</b></p> <p>Will damage the inverter and the danger of electric shock</p>	<p>Minors can not use it</p>  <p><b>FORBIDDEN</b></p> <p>Output high voltage will cause a danger of electric shock</p>
<p>Do not disassemble or remodel the inverter.</p>  <p><b>FORBID TOOPEN</b></p> <p>Do not disassemble or remodel the inverter Disassemble or modify unauthorized Inverter may cause a malfunction or fire, electric shock.</p>	<p>Do not wet the air frame.</p>  <p><b>FORBIDGET WET</b></p> <p>Other wise may lead to short circuit, even the fire and electric shock.</p>	<p>Do not place rod or other metal objects at vent or other openings.</p>  <p><b>FORBIDDEN</b></p> <p>This may touch on the internal components to cause electric shock or injury.</p>
<p>Put the plug of load of equipment full insert into an electrical outlet.</p>  <p>Failure to fully insert the plug socket, could lead to electric shock and overheating, even cause a fire accident.</p> <ul style="list-style-type: none"> <li>•Do not use a damaged plug or loosed outlet.</li> </ul>	<p>Do not touch power plug with wet hands.</p>  <p><b>FORBIDDEN</b></p> <p>This may cause electric shock. Prohibit wet hands.</p>	<p>Do not let the volatile substances or combustible materials floating into the machine.Away from the flame,or may cause fire accident.</p>  <p><b>KEEP AWVAYFIRE</b></p>
 <p><b>FORBIDDEN</b></p> <p><b>Do not to damage output sockets or wires.</b> (Do not cut, remodel, close to the pyrogenic,over-distorted, reversed, wring and pull wires,or placed outlet weight on wires or sockets.)</p> <p>When using this machine, please do not bundle wires. Use the broken wire can cause electric shock, short circuit or fire.</p>		



# ATTENTION

Use inverter in the common ground wire power system.



**FORBIDDEN**

if the output connect with the ground will cause inverter to short circuit and damage. For example: used in the car the inverter's output terminal have the voltage reflected on the car body

In power, do not let the load and to type in the loop.



**FORBIDDEN**

Cause the overload protection circuit will invalidate or increase the overload protection power.

Do not install inverter worked in hot, humid environment.



**FORBIDDEN**

Inverter leakage may cause electric shock or fire caused by accident.

The inverters have not been tested for use in medical equipment.



**FORBIDDEN**

# 1. Function introduction

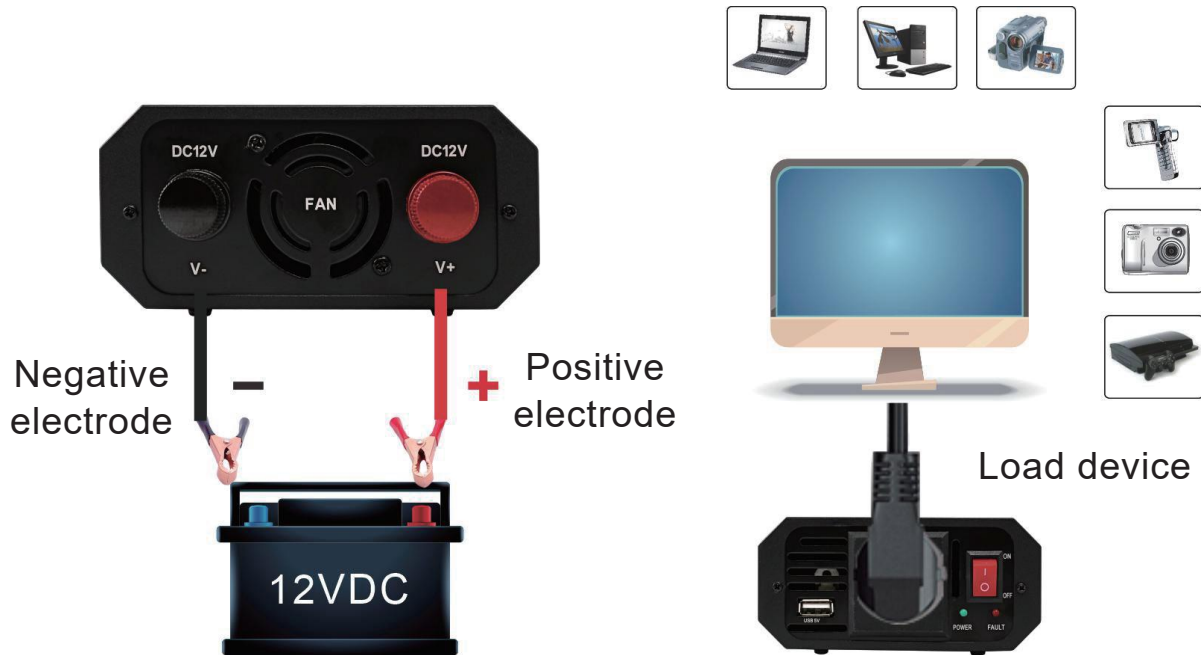


- 1: AC output socket
- 2: 5V USB
- 3: On/off Switch
- 4: Fault warning
- 5: Normal operation



- 1: DC input “-”
- 2: DC input “+”
- 3: Fan

## 2. Wiring instructions



## 3. Technical Parameters

Power	Input voltage	Input current	Output voltage	Output frequency	Rated output power	Instantaneous output power
200W	10.8V-14.4V	20A	110V/220V±5%	60Hz/50Hz±5%	200W	400W
300W	10.8V-14.4V	30A	110V/220V±5%	60Hz/50Hz±5%	300W	600W
400W	10.8V-14.4V	40A	110V/220V±5%	60Hz/50Hz±5%	400W	800W
500W	10.8V-14.4V	50A	110V/220V±5%	60Hz/50Hz±5%	500W	1000W
600W	10.8V-14.4V	60A	110V/220V±5%	60Hz/50Hz±5%	600W	1200W
700W	10.8V-14.4V	70A	110V/220V±5%	60Hz/50Hz±5%	700W	1400W
800W	10.8V-14.4V	80A	110V/220V±5%	60Hz/50Hz±5%	800W	1600W
1000W	10.8V-14.4V	100A	110V/220V±5%	60Hz/50Hz±5%	1000W	2000W
1200W	10.8V-14.4V	120A	110V/220V±5%	60Hz/50Hz±5%	1200W	2400W
1500W	10.8V-14.4V	150A	110V/220V±5%	60Hz/50Hz±5%	1500W	3000W
2000W	10.8V-14.4V	200A	110V/220V±5%	60Hz/50Hz±5%	2000W	4000W
3000W	10.8V-14.4V	300A	110V/220V±5%	60Hz/50Hz±5%	3000W	6000W
4000W	10.8V-14.4V	400A	110V/220V±5%	60Hz/50Hz±5%	4000W	8000W