# 5. Specification 5.1 Electrical Performance Input

Items		Parameters	
		Inverter mode	UPS mode
	Input voltage	220VAC	
Rating	Input frequency	50Hz	
A. Maria	Input phase	Single	phase
Input voltage range Input Frequency range		120-300VAC	145~285VAC
		38-7	TOHZ

Items	Model	600VA	800VA	1000VA	1500VA
Output	Utility mode	UPS	190V-260	V / INV: 16	0V-260V
voltage	Battery mode			±10%	
Output	Utility mode		Same a		
	Battery mode			±1HZ	
	Utility mode		Trackin		
Wave	Battery mode			wave	
	of output		0.	8	
Out	out Power	800VA/480W	800VA/640W	1000VA/800W	1500VA/1200W
Pr	otection	Over	load / short o	ircult / over	heat
Protection  Overload capability		after 30 sec. inverter still fault mode, 31 over foa shut down automatical 3times, if the will enter the 41 overfear closure of if after 30 sec if the inverter the fault mode, 31 overfear coincided down, after safter 30 sec inverter still fault mode, 31 overfear closure of it after 33 over foach course of the safter 30 sec inverter still fault mode, 31 overfear closure of the safter 30 sec inverter still fault mode, 31 overfear closure of the safter 30 sec inverter still fault mode, 31 overfear closure of the safter 30 sec inverter still fault mode, 31 overfear still safter 30 sec inverter still fault mode.	to normal op (100-110%), hout down, the onds. Automal overload, the next restart b (≥110%), the ne output, the onds. Automal r still overload	tic restart 33i invester will by people.  ), 30 sec the tid own, the ronds. Automa overload, the work restart by the second of the ronds automatic restart	nes, if the enter the inverter restart to centart is invarter record in matically mes, will enter the ente

Noise	≤55dB(1m)	
Insulation resistance	> 2M \( \O (500 \( \dc \) \)	
Insulation strength	2820Vdc	

Model Specs	600VA	800VA	1000VA	1500VA
Rating battery voltage	12	2V	24	v
Charge voltage	13.8V±0.3V		27.6V	±0.6V
Charge current	10A/20A		optional	
External interface			(Battery Anode) .	

# 5.2 Dimension

Model Specs	600VA	800VA	1000VA	1500VA
Machine Size L x W x H(mm)	272x28	5X165	313x2	95X189
Packing Size L x W x H(mm)	380x375X255		420×3	84X275
N.W (KG) +	11.4	13.4	15, 0	18.6
G.W (KG)	12.7	14.7	16, 5	20.1

### 5.3 Operating environment

Operation temperature	0°C-40°C	
Storage temperature	-25°C-55°C	
Relative humidity	20%-95% (Non-condensing)	
Altitude	<1000m, if over 1000m, refer to IEC62040 Lower Rating	
Cooling	Wind	

# 6. Packing list

IPS	1 pc
User manual	1 pc
Spare fuse	1 pc

# Digital Home Inverter

600VA~1500VA USER'S MANUAL

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5. 5.1 5.2 5.3	Specification
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#### Notes:

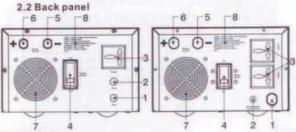
Please check the notes and follow up carefully, otherwise there is possibly harm to people and equipment. Please keep the user manual for further reference.

- Please make sure to connect the positive and negative poles of the battery correctly.
- · Please do not make the positive and negative poles of the battery short circuited.
- · Please use the inverter indoors and keep it away from humidity, direct light, hot objects and electrified objects
- Please keep the inverter 10cm away from other objects in four directions and keep good ventilation.
- · Please do not put any articles on the inverter.
- · Please do not pour any liquid or sundries into the inverter.
- Please let the inverter work in UPS mode when there is computer load to prevent restart of computer.
- · The charging current depends on battery capacity, temperature and so on. For details please refer to the use manual of battery manufactory
- It is not suggested to use the inverter in the life support system as its failure will do harm to the security and effectiveness of such equipment.

#### ALARM!!!-

- The inverter must be grounded. Please make the inverter grounded reliably when connect AC mains.
- The internal voltage of the inverter is dangerous potentially Please do not open the cabinet. The maintenance must be handled by qualified technicians certified by the manufacturers.
- There is high voltage danger between the battery terminals and the ground as the battery circuit and input circuit are not insulated. Please check if there is any voltage before do any maintenance
- There is circuit connection between inverter internal parts and the battery even if the inverter input power supply is disconnected. So there is potential danger. Please make sure to disconnect the battery before do any maintenance and repair job.

6	Battery low indication LED light	LED is on, which means battery is low.	
7	Trouble/ overload/ overheat/ low battery indication LED light	LED is on , which means inverter does not work normally, telling the states of inverter is Trouble/ overload/overheat/ low battery according to the audible alarm	Beep 2 times every 1 second means low battery, beep 4 times every 2 seconds means overload, beep 3 times every 1 second means inverter is overteat, keeping beep means ups has trouble, for example, output short circuit, inverter trouble, hardware trouble.
8	switch button for ups and inverter option	Choose to work in UPS or inverter mode	Choose UPS mode for pc load to prevent from pc restart when utility off
9	charging current option switch button	charging current is set according to battery capacity	Charging current setup according to manufacturer parameter



#### **Explanation:**

- utility input power cable utility input fuse

- output socket battery switch( work statues is switch on) battery negative pole line(black)
- battery positive pole line(red)
- 7 fan(work automatically when the temperature within equipment is over  $50\,\mathrm{C})$
- 8--- label

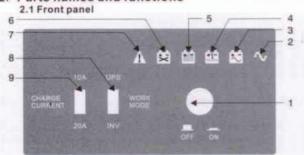
### 3. Installation and operation

#### 3.1 Unpack

#### 1. Introduction

SOHO series inverters are intelligent one phase in/one phase out sinewave output inverter power supplies. It is specially designed to meet the requirements of those family and office environment with unstable utility, frequent power down. features CPU intelligent control, wide input voltage range, fast battery charge speed, good appearance and high reliability, etc. It is widely used with appliance and office equipment such as TV set, DVD player, electric driller, refrigerator, recorder, water machine, fan, lighting, computer, switchboard, servers, etc. The capacity range is from 600VA to 1,500VA.

2. Parts names and functions



Description:

No	Function	Description	Remark
1	power on/off	inverter is power on when switch button is "on", inverter is off when switch button is "off"	
2		LED is on, which means input is normal, load is powered by utility	DAY-
3	inverter indication LED light	LED is on, which means load is powered by battery through inverter	LED light is on, beep once every 10 seconds, beep is stopped after 3 minutes
4		LED is on, which means system is charging battery	
5		LED is on, which means battery charging is finished	

When open the pack, please check the appearances of packing and inverter, If there are damage, please inform reseller immediately and keep packing for future delivery.

#### 3.2 Location

The inverter should be put on flat ground where is dry without direct light and corrosive air. Pease keep at least 10cm distance from the inverter to other articles in 4 sides to achiever good thermal dissipation. Please do not put anything on the inverter.

#### 3.3 Wiring

(1). Connect battery with inverter input terminals correctly: Positive line(red) should be connected with battery positive pole, battery negative line(black) should be connected with battery negative pole, Please note battery voltage should match with the unit's rate voltage.

(2). Switch off the battery.

Put the inverter input plug into the utility socket.

(4). Put load power cable plug into the inverter output socket. Please note the total load capacity must be less than unit's rate capacity.

# 3.4 Switch on

When all cable connections are confirmed correct, please press the power button, unit could work. When utility is normal, utility indication LED light and battery charging indication LED light are ON; When utility is abnormal, utility is off(utility input plug is not in place), then inverter indication LED light is ON

#### 3.5 Switch off

- 1). Switch off all loads
- Power button on front panel is off
- 3). Plug off utility socket
- 4). Battery switch is off

#### Audible Alarm Instruction

Sounds	Indication	
Once/10sec, auto-eliminated after 3 minutes.	Battery mode	
Twice/2sec	Low battery	
Continually 4 times/2sec	Output overload	
Continually sounds/2sec	UPS On	
3 times/1sec	Inverter over temperature	
Continually Ringing	Output short circuit//Inverter damaged abnormal/hardware failure, etc.	