

**USER MANUAL**  
**INVERTER/SOLAR CHARGER**  
**1400VA/2500VA**

**CROWN**  
MICRO

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# 1. Introduction

Thank you for purchasing this solar inverter. This simple solar inverter is designed to power your home appliances or precious 3C electronics. It also can handle motor-type loads with high surge power such as vacuums, small freezers, or drills. With built-in MPPT solar charger, it can convert solar power to battery power and provide continuous power to connected equipment during night time.

This manual is for qualified personnel. The tasks described in this manual may be performed by qualified personnel only.

## 2. Important Safety Warning (SAVE THESE INSTRUCTIONS)

**Before using the inverter, please read all instructions and cautionary markings on the unit, this manual and the batteries.**

### Conventions used:

**WARNING!** Warnings identify conditions or practices that could result in personal injury;

**CAUTION!** Caution identify conditions or practices that could result in damaged to the unit or other equipment connected.

### General Precaution-

**CAUTION!** The unit is designed for indoor use. Do not expose this unit to rain, snow or liquids of any type.

**CAUTION!** To reduce risk of injury, only use qualified batteries from qualified distributors or manufacturers. Any unqualified batteries may cause damage and injury. Do NOT use old or overdue batteries. Please check the battery type and date code before installation to avoid damage and injury.

**CAUTION!** Authorized service personnel should reduce the risk of electrical shock by disconnecting AC, DC and battery power from the inverter before attempting any maintenance or cleaning or working on any circuits connected to the inverter. Turning off controls will not reduce this risk. Internal capacitors can remain charged for 5 minutes after disconnecting all sources of power.

**CAUTION!** Do not disassemble this inverter yourself. It contains no user-serviceable parts. Attempt to service this inverter yourself may cause a risk of electrical shock or fire and will void the warranty from the Manufacturer.

**CAUTION!** To avoid a risk of fire and electric shock, make sure that existing wiring is in good condition and that the wire is not undersized. Do not operate the Inverter with damaged or substandard wiring.

**CAUTION!** To reduce risk of fire hazard, do not cover or obstruct the cooling fan.

**CAUTION!** Do not operate the inverter if it has received a sharp blow, been dropped, or otherwise damaged in any way. If the inverter is damaged, called for an RMA (Return Material Authorization).

**WARNING:** There are no user-replaceable parts inside of the inverter. Do not attempt to service the unit yourself.

**WARNING!** It's very important for system safety and efficient operation to use appropriate external battery cable. To reduce risk of injury, external battery cables should be UL certified and rated for 105°C or higher. And do not use copper cables less than 6AWG or 10AWG\*2.

**CAUTION!** Do not disassemble the inverter. Contact with the qualified service center when service or repair is required.

**WARNING!** Provide ventilation to outdoors from the battery compartment. The battery enclosure should be designed to prevent accumulation and concentration of hydrogen gas at the top of the compartment.

**CAUTION!** Use insulated tools to reduce the chance of short-circuit when installing or working with the inverter, the batteries, or other equipments attached to this unit.

**CAUTION!** For battery installation and maintenance, read the battery manufacturer's installation and maintenance instructions prior to operating.

### Personnel Precaution -

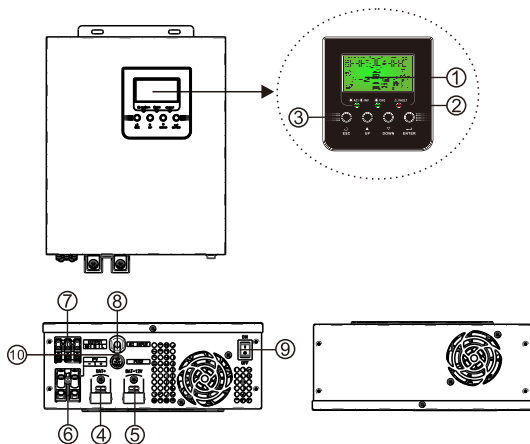
**CAUTION!** Careful to reduce the risk of dropping a metal tool on the batteries. It could spark or short circuit the batteries and could cause an explosion.

**CAUTION!** Remove personal metal items such as rings, bracelets, necklaces, and watches when working with batteries. Batteries can produce a short circuit current high enough to make metal melt, and could cause severe burns.

**CAUTION!** Avoid touching eyes while working near batteries.

**CAUTION!** Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.  
**CAUTION!** NEVER smoke or allow a spark or flame in vicinity of a battery.  
**CAUTION!** If a remote or automatic generator start system is used, disable the automatic starting circuit or disconnect the generator to prevent accident during servicing.

### 3. Product Overview



- 1.LCD display
- 2.LED indicators
- 3.Function keys
- 4.Battery positive
- 5.Battery negative
- 6.PV input
- 7.Output
- 8.AC input
- 9.ON/OFF
- 10.FUSE

### 4. Installation

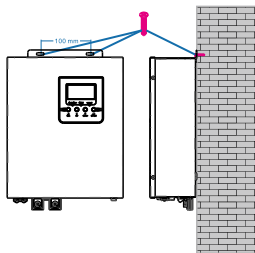
**NOTE:** Before installation, please inspect the unit. Be sure that nothing inside the package is damaged.

#### Mounting the unit

The unit **ONLY** can be mounted vertically to a wall surface.

Please follow below steps:

1. Turn off the unit before mounting.
2. Select an appropriate mounting location. Mark four mounting ends as shown in chart.
3. Drill four marks by screws.
4. Mount the unit by positioning the key-hole slots over the mounting screws.



#### Connect to Utility and Charge

Plug in the AC input cord to the wall outlet. The unit will automatically charge the connected external battery even though the unit is off.

#### Connect to External Battery

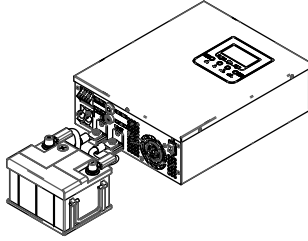
**Step 1-** Install a DC Breaker in a positive battery line. The rating of the DC Breaker must be according to the inverter's battery current (100 Amp). Keep the DC breaker off.

**Step 2 -** Remove insulation sleeve 18 mm for positive and negative conductors.

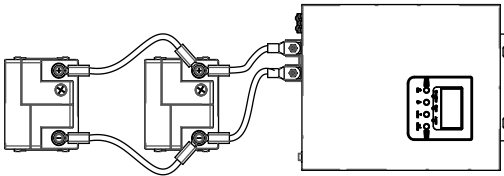
**Step 3-** Connect battery cables to the external batteries.

**Note:** For the user operation safety, we strongly recommend that you should use tapes to isolate the battery terminals before you start to operate the unit.

- 1) Single battery connection:** When using a single battery, its voltage must be equal to the Nominal DC Voltage of the unit

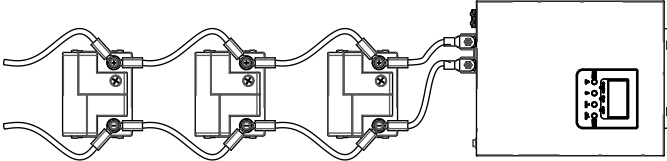


- 2) Multiple batteries in series connection(Refer to Fig. 3):** All batteries must be equal in voltage and amp hour capacity. The sum of their voltages must be equal to the nominal DC Voltage of the unit.



**Fig 3**

- 3) Multiple batteries in parallel connection(Refer to Fig. 4):** Each battery's voltage must be equal to the Nominal DC Voltage of the unit.



**Fig 4**

**Step 4-** Make sure to connect the polarity of battery side and the unit correctly.

**Positive pole (Red) of battery to the positive terminal (+) of the unit.**

**Negative pole (Black) of battery to the negative terminal (-) of the unit.**

**Step 5-**Take the DC breaker on.

**Connect to Solar Panel**

**CAUTION:** Before connecting to PV modules, please install **separately** a DC circuit breaker between inverter and PV modules.

**WARNING!** All wiring must be performed by a qualified personnel.

**WARNING!** It's very important for system safety and efficient operation to use appropriate cable for PV module connection. To reduce risk of injury, please use the proper recommended cable size as below.

Typical Amperage	Gauge	Torque Value	Conductor cross-section (mm2)
50A	10 AWG	1.4~1.6 Nm	5.26

**Step 1-** Connect one cable to the positive (+) pole of solar panel and solar charger positive (+) terminal.

**Step 2-** Connect the other cable to the negative (-) pole of solar panel and solar charger negative (-) terminal.

**Step 3-** Before connecting photovoltaic solar panels, a matching circuit breaker must be connected in series. The maximum value for PV I<sub>sc</sub> is 50A.

## PV Module Selection:

When selecting proper PV modules, please be sure to consider below requirements first:

1. Open circuit Voltage (Voc) of PV modules not exceeds max. PV array open circuit voltage of inverter.

INVERTER MODEL	1.4KVA	2.5KVA
Charging Current	50Amp	
System DC Voltage	12Vdc	24Vdc
Operating Voltage Range	15~80Vdc	30~80Vdc
Max. PV Array Open Circuit Voltage	100Vdc	55Vdc

2. Max. Power Voltage (Vmpp) of PV modules should be close to best Vmp of inverter or within Vmp range to get best performance. If one PV module cannot meet this requirement, it's necessary to have several PV modules in series connection. Refer to below table.

Model	Best Vmp	Vmp range
1.4KVA	15Vdc	16~18Vdc
2.5KVA	30Vdc	32~36Vdc

Note: \* Vmp: panel max power point voltage.

The PV charging efficiency is maximized while PV system voltage is close to Best Vmp.

**Maximum PV module numbers in Series:** Vmpp of PV module \* X pcs  $\approx$  Best Vmp of Inverter or Vmp range

**PV module numbers in Parallel:** Max. charging current of inverter / Impp

**Total PV module numbers = maximum PV module numbers in series \* PV module numbers in parallel**

Take 1.2K inverter as an example to select proper PV modules. After considering Voc of PV module not exceeds 100Vdc and max. Vmpp of PV module close to 15Vdc or within 15Vdc ~ 18Vdc, we can choose PV module with below specification.

Maximum Power (Pmax)	85W	Max. PV module numbers in series
Max. Power Voltage Vmpp(V)	17.6V	1 $\rightarrow$ 17.6 x 1 $\approx$ 15 ~ 18
Max. Power Current Impp(A)	4.83A	PV module numbers in parallel
Open Circuit Voltage Voc(V)	21.6V	10 $\rightarrow$ 50 A / 4.83
Short Circuit Current Isc(A)	5.03A	Total PV module numbers
		1 x 10 = 10

**Maximum PV module numbers in Series: 1**

**PV module numbers in Parallel: 10**

**Total PV module numbers: 10**

Take 2.4K inverter as an example to select proper PV module. After considering Voc of PV module not exceed 100Vdc and max. Vmpp of PV module close to 30Vdc or within 30Vdc ~ 32Vdc, we can choose PV module with below specification.

Maximum Power (Pmax)	260W	Max. PV module numbers in series
Max. Power Voltage Vmpp(V)	30.9V	1 $\rightarrow$ 30.9 x 1 $\approx$ 30 ~ 32
Max. Power Current Impp(A)	8.42A	PV module numbers in parallel
Open Circuit Voltage Voc(V)	37.7V	6 $\rightarrow$ 50 A / 8.42
Short Circuit Current Isc(A)	8.89A	Total PV module numbers
		1 x 6 = 6

**Maximum PV module numbers in Series: 1**

**PV module numbers in Parallel: 6**

**Total PV module numbers: 6**






**CAUTION:** Please strictly follow installation procedure when you want to connect PV or DC terminals, Don't touch the DC terminals and the PV terminals by hand, Failure to follow these instructions can result in serious electrical shock.

## 5. Operation

### Power On/Off

Once the inverter has been properly installed, press the power switch to turn on the unit. The unit will work automatically in line mode or inverter mode according to input utility power's status. When press the power switch again, the unit will be turned off.

### LED Indicator

LED Indicator		Messages	
 AC / INV	Green	Solid On	Output is powered by utility in Line mode.
		Flashing	Output is powered by battery or PV in battery mode.
 CHG	Green	Solid On	Battery is fully charged.
		Flashing	Battery is charging.
 FAULT	Red	Solid On	Fault occurs in the inverter.
		Flashing	Warning condition occurs in the inverter.








### Function Keys

Function Key	Description
ESC	To exit setting mode
UP	To go to previous selection
DOWN	To go to next selection
ENTER	To confirm the selection in setting mode or enter setting mode

### Audible Alarms

Buzzer Audible Alarm	Messages
Inverter Mode (Low-battery Voltage)	Buzzing every 1 seconds
110% overload warning	Buzzing every 0.5 second
Overcharge	Buzzing continuously
Fault mode	Buzzing continuously

### LCD Display

Display	Function
Input source information	
	Indicates the AC input
	Indicates the PV input
	Indicates input voltage, input frequency, PV voltage, charging current, battery voltage,
Configuration Program and Fault Information	
	Indicates the setting programs.
	Indicates the warning and fault codes. Warning:  Flashing with warning code Fault:  Lighting with fault code



Output Information																			
	Indicates the output voltage, output frequency, load percent, load in VA, load in Watt, main board firmware version and SCC firmware version																		
Battery Information																			
	Indicates the Battery level by 0-24%, 25-49%, 50-74% and 75-100% in battery mode, charging status in line mode.																		
In AC mode, it will present battery charging status.																			
<table border="1"> <thead> <tr> <th>Status</th> <th>Battery voltage</th> <th>LCD Display</th> </tr> </thead> <tbody> <tr> <td rowspan="4">Constant Current mode / Constant Voltage mode</td> <td>&lt; 11Vdc/pcs</td> <td>4 bars will flash in turns.</td> </tr> <tr> <td>11Vdc ~ 11.5Vdc/pcs</td> <td>Bottom bar will be on and the other three bars will flash in turns.</td> </tr> <tr> <td>11.5Vdc ~ 12.5Vdc/pcs</td> <td>Bottom two bars will be on and the other two bars will flash in turns.</td> </tr> <tr> <td>&gt; 12.5Vdc/pcs</td> <td>Bottom three bars will be on and the top bar will flash.</td> </tr> <tr> <td colspan="2">Floating mode. Batteries are fully charged.</td> <td>4 bars will be on.</td> </tr> </tbody> </table>	Status	Battery voltage	LCD Display	Constant Current mode / Constant Voltage mode	< 11Vdc/pcs	4 bars will flash in turns.	11Vdc ~ 11.5Vdc/pcs	Bottom bar will be on and the other three bars will flash in turns.	11.5Vdc ~ 12.5Vdc/pcs	Bottom two bars will be on and the other two bars will flash in turns.	> 12.5Vdc/pcs	Bottom three bars will be on and the top bar will flash.	Floating mode. Batteries are fully charged.		4 bars will be on.				
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	Indicates overload.																		
	Indicates the load level by 0-24%, 25-49%, 50-74%, and 75-100%.																		
	0%~24%	25%~49%	50%~74%	75%~100%															
Mode operation information																			
	Indicates unit connects to the mains.																		
	Indicates unit connects to the PV panel																		
	Indicates load is supplied by utility power.																		
	Indicates the utility charger circuit is working.																		
	Indicates the DC/AC inverter circuit is working.																		

## LCD Setting

After pressing and holding ENTER button for 3 seconds, the unit will enter setting mode. Press "SCROLL" button to select setting programs. And then, press "ENTER" button to confirm the selection or ESC button to exit.

## Setting Programs

Program	Description	Selectable option	
00	Exit setting mode	Escape 00 <u>ESC</u>	
01	Output source priority: To configure load power source priority	Utility first 07 <u>UE1</u>	Utility will provide power to the loads as first priority. Solar and battery energy will provide power to the loads only when utility power is not available.
		Solar first (default) 01 <u>SUB</u>	Solar energy provides power to the loads as first priority. If solar energy is not sufficient to power all connected loads, battery energy will supply power the loads at the same time. Utility provides power to the loads only when any one condition happens: - Solar energy is not available - Battery voltage drops to low-level warning voltage or the setting point in program 10.
		SBU priority 01 <u>SBU</u>	Solar energy provides power to the loads as first priority. If solar energy is not sufficient to power all connected loads, battery energy will supply power to the loads at the same time. Utility provides power to the loads only when battery voltage drops to either low-level warning voltage or the setting point in program 10.
02	Maximum charging current: To configure total charging current for solar and utility chargers. (Max. charging current = utility charging current + solar charging current)	10A 02 <u>10A</u>	20A 02 <u>20A</u>
		30A 02 <u>30A</u>	40A 02 <u>40A</u>
		50A (default) 02 <u>50A</u>	
03	Output frequency	50Hz (default) 03 <u>50<sub>Hz</sub></u>	60Hz 03 <u>60<sub>Hz</sub></u>
04	Charger source priority: To configure charger source priority	If this inverter/charger is working in Line, Standby or Fault mode, charger source can be programmed as below:	
		Utility first 04 <u>CUt</u>	Utility will charge battery as first priority. Solar energy will charge battery only when utility power is not available.
		Solar first 04 <u>CS0</u>	Solar energy will charge battery as first priority. Utility will charge battery only when solar energy is not available.
		Solar and utility 04 <u>SU</u>	Solar energy and utility will charge battery at the same time.
		Only Solar 04 <u>OS0</u>	Solar energy will be the only charger source no matter utility is available or not.
If this inverter/charger is working in Battery mode, only solar energy can charge battery. Solar energy will charge battery if it's available and sufficient.			


05	Battery type	AGM(Default) 05 AGn	Flooded 05 FLd
		05 LI	User-defined 05 USE
		05 tHb	
06	Bulk charging (C.V voltage)voltage	12V model default setting: 14.1V CU 06 14.1 <sup>BATT</sup>	24V model default setting: 28.2V CU 06 28.2 <sup>BATT</sup>
		If self-defined is selected in program 02, this program can be set up. Setting range is from 13.0V to 14.6V for 12Vdc model and increment of each click is 0.1V. Setting range is from 26.0V to 29.2V for 24Vdc model and increment of each click is 0.2V.	
07	Floating charging voltage	12V model default setting: 13.5V FLU 07 13.5 <sup>BATT</sup>	24V model default setting: 27.0V FLU 07 27.0 <sup>BATT</sup>
		If self-defined is selected in program 02, this program can be set up. Setting range is from 13.0V to 14.6V for 12Vdc model and increment of each click is 0.1V. Setting range is from 26.0V to 29.2V for 24Vdc model and increment of each click is 0.2V.	
08	Low DC cut-off voltage	1.4KVA default setting: 9.9V COU 08 9.9 <sup>BATT</sup>	2.5KVA default setting: 19.8V COU 08 19.8 <sup>BATT</sup>
		Setting range is from 9.9V to 12.0V for 1.4KVA model and increment of each click is 0.1V Setting range is from 19.8V to 24.0V for 2.5KVA model and increment of each click is 0.2V. Low DC cut-off voltage will be fixed to setting value no matter what percentage of load is connected.	
09	Max AC charging current	20A(default) UEI 09 20A	10A UEI 09 10A

10	Setting voltage point back to utility source when selecting "SBU priority" or "Solar first" in program 07.	Setting range is from 11.0V-12.8V for 1.4KVA model(*2 for 2.5KVA model) Increment of each click is 0.1V for 1.4KVA model(*2 for 2.5KVA model)	
		11.0V 10 <sup>BATT</sup> 110 <sup>v</sup>	
11	Setting voltage point back to battery mode when selecting "SBU priority" or "Solar first" in program 07.	Setting range is from 12.0V-14.0V for 1.4KVA model(*2 for 2.5KVA model) Increment of each click is 0.1V for 1.4KVA model(*2 for 2.5KVA model)	
		Battery fully charged 11 <sup>BATT</sup> FUL	12.5V 11 <sup>BATT</sup> 125 <sup>v</sup>
12	AC input voltage range	Wide (default) 12 <sup>udE</sup>	If selected, acceptable AC input voltage range will be within 90-280VAC.
		Narrow 12 <sup>nFu</sup>	If selected, acceptable AC input voltage range will be within 170-280VAC.
13	Auto return to default display screen	Return to default display screen (default) 13 <sup>ESP</sup>	If selected, no matter how users switch display screen, it will automatically return to default display screen (Input voltage /output voltage) after no button is pressed for 1 minute.
		Stay at latest screen 13 <sup>KEP</sup>	If selected, the display screen will stay at latest screen user finally switches.
14	Beeps while primary source is interrupted	Alarm on(default) 14 <sup>AON</sup>	Alarm off 14 <sup>AOF</sup>

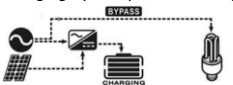
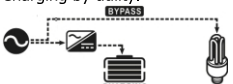

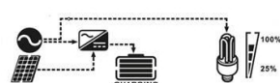
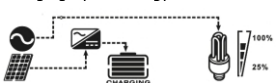
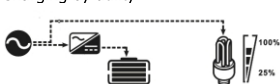
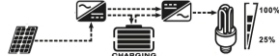

## Display Setting

The LCD display information will be switched in turns by pressing "SCROLL" key. The selectable information is switched as below order: input voltage, input frequency, PV voltage, charging current, battery voltage, output voltage, output frequency, load in Watt, load in VA, load in Watt, DC discharging current, main CPU Version and second CPU Version.







Selectable information	LCD display	Selectable information	LCD display
Input voltage/Output voltage (Default Display Screen)	<p>Input Voltage=230V, output voltage=230V</p>	Battery voltage	<p>Battery voltage=25.5V</p>
Load in Watt	<p>When load is lower than 1kW, load in W will present xxxW like below chart.</p> <p>When load is larger than 1kW (<math>\geq 1\text{KW}</math>), load in W will present x.xkW like below chart.</p>	Charging current	<p>Charging current=50A</p>
Output frequency	<p>Output frequency=50Hz</p>	Load percentage	<p>Load percent=70%</p>
PV voltage	<p>PV voltage=30V</p>	Main CPU version checking	<p>Main CPU version 00001.01</p>

Secondary CPU version checking	Secondary CPU version 00003.03  		
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## Operating Mode Description

Operation mode	Description	LCD display
Standby mode <b>Note:</b> *Standby mode: The inverter is not turned on yet but at this time, the inverter can charge battery with AC bypass output.	Utility input bypass to output, charger available, LCD backlight is off	Charging by utility and PV energy. 
		Charging by utility. 
		Charging by PV energy. 
Line Mode	The unit will provide output power from the mains. It will also charge the battery at line mode.	Charging by utility and PV energy. 
		Charging by PV energy. 
		Charging by utility. 
Battery Mode	The unit will provide output power from battery and PV power.	Power from battery and PV energy. 
		Power from battery only. 

### Fault Reference Code

Fault Code	Fault Event	Icon on	Fault Code	Fault Event	Icon on
00	Output short circuit		05	Fan locked	
01	Over load time out		06	Over temperature	
03	Output voltage too high		08	Over charge	

### Warning Indicator

Warning Code	Warning Event	Icon flashing
01	Over load	 
02	Battery low	

## 6. Trouble Shooting

Use the table below to solve minor problems.

Problem	LCD/LED/Buzzer	Explanation / Possible cause	What to do
When power fails, the backup time is shorten.	Battery low alarm issue quickly.	Battery voltage is too low.	Charge the unit at least 8 hours.
		Battery capacity is not full even after charge the unit for at least 8 hours.	Check the date code of the battery. If the batteries are too old, replace the batteries.
Mains exist but the unit works in battery mode.	Input voltage is displayed as 0 on the LCD and green LED is flashing.	Input protector is tripped	Check if AC breaker is tripped and AC wiring is connected well.
	Green LED is flashing.	Insufficient quality of AC power. (Shore or Generator)	1. Check if AC wires are too thin and/or too long. 2. Check if generator (if applied) is working well or if input voltage range setting is correct. (Narrow→Wide)
	Green LED is flashing.	Set "Solar First" as the priority of output source.	Change output source priority to Utility first.
No LED display on the front panel when the utility power is normal.	No LED display.	Battery is not connected well.	Check the external battery cable and terminal. Make sure all the battery connections to the unit are all correct.
		Battery defect.	Replace the batteries.
Buzzer beeps continuously and red LED is on.	Fault code 00	Output short circuited.	Check if wiring is connected well and remove abnormal load.
	Fault code 01	Overload error. The inverter is overload 110% and time is up.	Reduce the connected load by switching off some equipment.
	Fault code 03	Output voltage too high	Return to repair center.
	Fault code 05	Fan fault	Replace the fan.
	Fault code 06	Internal temperature of inverter component is over 100°C.	Check whether the air flow of the unit is blocked or whether the ambient temperature is too high.
	Fault code 08	Battery is over-charged.	Return to repair center.
The battery voltage is too high.		Check if spec and quantity of batteries are meet requirements.	

If there is any abnormal situations occur, which doesn't list above, please call the service people immediately for professional examine.



## 7. Specifications

<b>MODEL</b>	<b>Relevo-1400VA</b>	<b>Relevo-2500VA</b>
<b>MODEL NUMBER</b>	<b>RV-1.4KW-M</b>	<b>RV-2.5KW-M</b>
<b>CAPACITY</b>	<b>1400VA</b>	<b>2500VA</b>
<b>INPUT</b>		
Voltage	220-240 VAC	
Voltage Range	90-280 VAC	
Nominal Operating Frequency	50/60Hz	
Maximum Input Current	10A	13A
<b>OUTPUT</b>		
Nominal Output Voltage	220-240 VAC	
Voltage Regulation (Batt. Mode)	+/-10%	
Output Frequency Range	50/60Hz	
Nominal Output Current	5.2A	10.4A
Inrush Current	10A	13A
Maximum Output Fault Current	6.9A	13.6A
Transfer Time	20 ms typical	
Waveform	Simulated Sine Wave	
<b>BATTERY</b>		
Battery Voltage	12 VDC	24 VDC
Maximum Battery Discharging Current	76A	76A
Floating Charge Voltage	13.7 VDC $\pm$ 0.5 VDC	27.4 VDC $\pm$ 1 VDC
Maximum AC Charging Current	10 A or 20 A	10 A or 15 A
<b>SOLAR CHARGER</b>		
Solar Charger Type	MPPT	
Maximum PV Array Open Circuit Voltage	100 VDC	
MPPT Range @ Operating Voltage	15 ~ 80 VDC	30 ~ 80 VDC
Maximum Solar Charging Current	50 A	50 A
Maximum Charging Current	50 A	50 A
<b>PHYSICAL</b>		
Dimension (DxWxH) mm	283x233x100	
Net Weight (kgs)	4.5	4.8
Protective Class	I	
Ingress Protection Rating	IP20	
<b>ENVIRONMENT</b>		
Humidity	0 ~ 90% RH (No condensing)	
Operating Temperature	0 to 55°C	
Altitude	0 ~ 1000 m	

技术要求:

1: 材质:封面: 80克铜板纸

内页: 80克书写纸, 黑白印刷;

2: 装订后成品尺寸:123\*183mm(公差+/-2MM);

3: 印刷效果:图片、字体、线条需清晰,无重影,无毛边,无多余杂点;