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## 1 Safety Information



#### **CAUTION**

Non-qualified electricians are forbidden to open the case due to hazard of electrical shock.

Consulting the dealer is required before using for below equipment. Its application, configuration, management and maintenance must be specially considered and designed.

- · Medical equipment which is directly related to patients'life
- Elevator and other equipment which may endanger personal safety



## **Safety and General Information**

- Read all safety information and operating instructions carefully before attempting to install, operate, service or maintain the inverter.
- Do not disassemble this inverter. Contact your local service center if maintenance or repair is needed.
- Disconnect all connection wiring before maintenance or cleaning to avoid the risk of electric shock.
- Do not use liquid extinguisher if there is a fire, a dry powder extinguisher is recommended.
- Do not dispose of the batteries with fire. The batteries may explode.
- Do not open or mutilate batteries. Released electrolyte inside is harmful to the skin and eyes, and maybe toxic.
- Do not connect the positive pole and negative pole directly, otherwise it will cause electric shocks or will be on fire.
- Be sure the air vents on the UPS are not blocked. Allow adequate space for proper ventilation.

# **2 Product Overview**

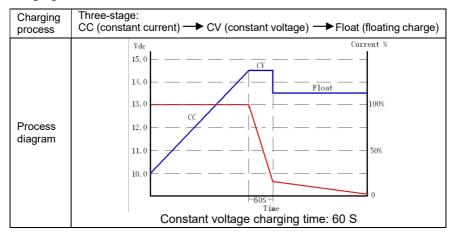
# 2.1 Specifications

Bypass input range  0 ~ 264 Vac for 220 Vac / 230 Vac / 240 Vac, 0 ~ 132 Vac for 100 Vac / 110 Vac / 115 Vac / 120 Vac  150 ~ 282 Vac for 220 Vac; 156 ~ 294 Vac for 230 Vac; 163 ~ 307 Vac for 240 Vac; 75 ~ 141 Vac for 110 Vac; 82 ~ 154 Vac for 120 Vac.  Input frequency range  150 Hz / 60 Hz (Auto-sense & Settable: 5% ~ 15%, default 15%), 42.5 ~ 57.5 Hz for 50 Hz, 51 ~ 69 Hz for 60 Hz  108 ~ 307 Vac for 240 Vac; 104 ~ 294 Vac for 230 Vac; 107 ~ 148 Vac for 110 Vac; 108 ~ 307 Vac for 240 Vac; 108 ~ 307 Vac for 348 Vac	MODEL	300 W 600 W 1000 W 1600 W 2500 W				3500 W	
DC input range	DC Input (the inverter must be connected to batteries to work properly)						
## AC Input    Bypass input range	Nominal input voltage	12 V 24 V					
Bypass input range	DC input range		10 ~ 15 V 20 ~ 30 V				
0 ~ 132 Vac for 100 Vac / 110 Vac / 115 Vac / 120 Vac	AC Input						
150 × 282 Vac for 120 Vac;   156 × 294 Vac for 230 Vac;   163 ~ 307 Vac for 240 Vac;   156 ~ 294 Vac for 230 Vac;   163 ~ 307 Vac for 240 Vac;   79 ~ 148 Vac for 100 Vac;   75 ~ 141 Vac for 110 Vac;   82 ~ 154 Vac for 120 Vac.   100 Vac;   75 ~ 141 Vac for 110 Vac;   82 ~ 154 Vac for 120 Vac.   100 Vac;	Dynaga innut range		0 ~ 264 Va	c for 220 Va	c / 230 Vac	/ 240 Vac,	
Mains input range	bypass input range						
Mains input range							
S2 ~ 154 Vac for 120 Vac.	Mains input range						
Input frequency range					79 140 V	ac ioi i i o v	ac,
A2.5 ~ 57.5 Hz for 50 Hz, 51 ~ 69 Hz for 60 Hz	l				table: 5%	~ 15%,defa	ult 15%),
Input range of the generator	Input frequency range						
Input range of the generator				- ,			,
S14   Vac for 120 Vac   S2 ~ 148 Vac for 115 Vac   S4 ~ 154 Vac for 120 Vac   No AVR in generator mode   No AVR in generator mode   A0 ~ 70 Hz	Input range of the			,			,
No AVR in generator mode	generator			- ,	o2 ~ 148 Va	ac for 115 V	ac;
Input frequency range of the generator							
Settable	Input frequency range	NOAVI	in generato				
Output           Inverter output range         220 Vac / 230 Vac / 240 Vac ± 5% or 100 Vac / 110 Vac / 115 Vac / 120 Vac ± 5% (settable)           Bypass output range         0 ~ 264 Vac for 220 V / 230 V / 240 V, 0 ~ 132 Vac for 100 V / 110 V / 115 V / 120 V           Mains output range         174 ~ 242 Vac for 220 Vac; 182 ~ 253 Vac for 230 Vac; 190 ~ 264 Vac for 240 Vac; 79 ~ 109 Vac for 100 Vac; 87 ~ 121 Vac for 110 Vac; 93 ~ 125 Vac for 115 Vac; 95 ~ 133 Vac for 120 Vac.           Output frequency         50 Hz / 60 Hz ± 0.3 (Auto-sense & settable)           Output waveform         Pure sine wave           Output power         300 W   600 W   1000 W   1600 W   2500 W   3500 W           Efficiency         Max. 95% (Mains mode); Max. 80% (Inverter mode)           ECO mode         Settable, load < 3%, enter in 80 s				40 ~ 7	0 Hz		
Output           Inverter output range         220 Vac / 230 Vac / 240 Vac ± 5% or 100 Vac / 110 Vac / 115 Vac / 120 Vac ± 5% (settable)           Bypass output range         0 ~ 264 Vac for 220 V / 230 V / 240 V, 0 ~ 132 Vac for 100 V / 110 V / 115 V / 120 V           Mains output range         174 ~ 242 Vac for 220 Vac; 182 ~ 253 Vac for 230 Vac; 190 ~ 264 Vac for 240 Vac; 79 ~ 109 Vac for 100 Vac; 87 ~ 121 Vac for 110 Vac; 93 ~ 125 Vac for 115 Vac; 95 ~ 133 Vac for 120 Vac.           Output frequency         50 Hz / 60 Hz ± 0.3 (Auto-sense & settable)           Output waveform         Pure sine wave           Output power         300 W   600 W   1000 W   1600 W   2500 W   3500 W           Efficiency         Max. 95% (Mains mode); Max. 80% (Inverter mode)           ECO mode         Settable, load < 3%, enter in 80 s	Input power matching		Ra	ated power 1	0% ~ 1509	%,	
Output           Inverter output range         220 Vac / 230 Vac / 240 Vac ± 5% or 100 Vac / 115 Vac / 120 Vac ± 5% (settable)           Bypass output range         0 ~ 264 Vac for 220 V / 230 V / 240 V, 0 ~ 132 Vac for 100 V / 110 V / 115 V / 120 V           Mains output range         174 ~ 242 Vac for 220 Vac; 182 ~ 253 Vac for 230 Vac; 190 ~ 264 Vac for 240 Vac; 79 ~ 109 Vac for 100 Vac; 87 ~ 121 Vac for 110 Vac; 93 ~ 125 Vac for 115 Vac; 95 ~ 133 Vac for 120 Vac.           Output frequency         50 Hz / 60 Hz ± 0.3 (Auto-sense & settable)           Output waveform         Pure sine wave           Output power         300 W   600 W   1000 W   1600 W   2500 W   3500 W           Efficiency         Max. 95% (Mains mode); Max. 80% (Inverter mode)           ECO mode         Settable, load < 3%, enter in 80 s	of the generator		regulating step 10%, default 120%				
100 Vac / 115 Vac / 120 Vac ± 5% (settable)	Output						
Bypass output range  0 ~ 264 Vac for 220 V / 230 V / 240 V, 0 ~ 132 Vac for 100 V / 110 V / 115 V / 120 V  174 ~ 242 Vac for 220 Vac; 182 ~ 253 Vac for 230 Vac; 190 ~ 264 Vac for 240 Vac; 79 ~ 109 Vac for 100 Vac; 87 ~ 121 Vac for 110 Vac; 93 ~ 125 Vac for 115 Vac; 95 ~ 133 Vac for 120 Vac.  Output frequency  Output waveform  Output power  Output power  Settable, load < 3%, enter in 80 s  No-load shutdown  Fund sine wave  Settable, load < 3%, enter in 80 s  No-load shutdown  Settable, time can be set (1 ~ 99 min), load can be set (3% ~ 50%)  Transfer time  ≤ 10 ms  ≤ 15 ms  Power factor  THDV    Settable, load   Yes   Mains mode: 110% 120 s; 125% 60 s; 150% 10 s (switch to bypass)	Inverter output range		220 Va	c / 230 Vac	/ 240 Vac ±	5% or	
Dypass output range         0 ~ 132 Vac for 100 V / 110 V / 115 V / 120 V           174 ~ 242 Vac for 220 Vac; 182 ~ 253 Vac for 230 Vac; 190 ~ 264 Vac for 240 Vac; 79 ~ 109 Vac for 100 Vac; 87 ~ 121 Vac for 110 Vac; 93 ~ 125 Vac for 115 Vac; 95 ~ 133 Vac for 120 Vac.           Output frequency         50 Hz / 60 Hz ± 0.3 (Auto-sense & settable)           Output waveform         Pure sine wave           Output power         300 W 600 W 1000 W 1600 W 2500 W 3500 W           Efficiency         Max. 95% (Mains mode); Max. 80% (Inverter mode)           ECO mode         Settable, load < 3%, enter in 80 s	inverter output range	100	Vac / 110 V	ac / 115 Va	c / 120 Vac	± 5% (setta	ıble)
Mains output range	Bypass output range						
Mains output range       190 ~ 264 Vac for 240 Vac; 87 ~ 109 Vac for 100 Vac; 87 ~ 121 Vac for 110 Vac; 93 ~ 125 Vac for 115 Vac; 95 ~ 133 Vac for 120 Vac.         Output frequency       50 Hz / 60 Hz ± 0.3 (Auto-sense & settable)         Output waveform       Pure sine wave         Output power       300 W   600 W   1000 W   1600 W   2500 W   3500 W   3500 W           Efficiency       Max. 95% (Mains mode); Max. 80% (Inverter mode)         ECO mode       Settable, load < 3%, enter in 80 s	71 1 3	474 0					
87 ~ 121 Vac for 110 Vac; 93 ~ 125 Vac for 115 Vac; 95 ~ 133 Vac for 120 Vac.							,
95 ~ 133 Vac for 120 Vac.  Output frequency 50 Hz / 60 Hz ± 0.3 (Auto-sense & settable)  Output waveform Pure sine wave  Output power 300 W 600 W 1000 W 1600 W 2500 W 3500 W  Efficiency Max. 95% (Mains mode); Max. 80% (Inverter mode)  ECO mode Settable, load < 3%, enter in 80 s  No-load shutdown Settable, time can be set (1 ~ 99 min), load can be set (3% ~ 50%)  Transfer time ≤ 10 ms ≤ 15 ms  Power factor 1.0  THDV < 5% (Iinear load)  Inductive load Yes  Motor load Yes  Rectifier load Yes  Overload canability Mains mode: 110% 120 s; 125% 60 s; 150% 10 s (switch to bypass)	Mains output range						,
Output frequency         50 Hz / 60 Hz ± 0.3 (Auto-sense & settable)           Output waveform         Pure sine wave           Output power         300 W   600 W   1000 W   1600 W   2500 W   3500 W           Efficiency         Max. 95% (Mains mode); Max. 80% (Inverter mode)           ECO mode         Settable, load < 3%, enter in 80 s					120 14	3 101 110 Va	٥,
Output power         300 W         600 W         1000 W         1600 W         2500 W         3500 W           Efficiency         Max. 95% (Mains mode); Max. 80% (Inverter mode)           ECO mode         Settable, load < 3%, enter in 80 s	Output frequency				uto-sense &	& settable)	
Output power         300 W         600 W         1000 W         1600 W         2500 W         3500 W           Efficiency         Max. 95% (Mains mode); Max. 80% (Inverter mode)           ECO mode         Settable, load < 3%, enter in 80 s	Output waveform			Pure sin	e wave	·	
ECO mode         Settable, load < 3%,enter in 80 s           No-load shutdown         Settable, time can be set (1 ~ 99 min), load can be set (3% ~ 50%)           Transfer time         ≤ 10 ms         ≤ 15 ms           Power factor         1.0           THDV         < 5% (linear load)		300 W	600 W	1000 W	1600 W	2500 W	3500 W
No-load shutdown         Settable, time can be set (1 ~ 99 min), load can be set (3% ~ 50%)           Transfer time         ≤ 10 ms         ≤ 15 ms           Power factor         1.0           THDV         < 5% (linear load)		Ma					de)
Transfer time         ≤ 10 ms         ≤ 15 ms           Power factor         1.0           THDV         < 5% (linear load)							
Power factor							
THDV         < 5% (linear load)           Inductive load         Yes           Motor load         Yes           Rectifier load         Yes           Overload capability         Mains mode: 110% 120 s; 125% 60 s; 150% 10 s (switch to bypass)							
Inductive load Yes  Motor load Yes  Rectifier load Yes  Overload capability Mains mode: 110% 120 s; 125% 60 s; 150% 10 s (switch to bypass)							
Motor load Yes  Rectifier load Yes  Overload capability Mains mode: 110% 120 s; 125% 60 s; 150% 10 s (switch to bypass)							
Rectifier load Yes  Overload capability Mains mode: 110% 120 s; 125% 60 s; 150% 10 s (switch to bypass)							
Overload capability Mains mode: 110% 120 s; 125% 60 s; 150% 10 s (switch to bypass)							
	Mains mode: 110% 120 s: 125% 60 s: 150% 10 s (switch to by			to bypass)			
	Overload capability						

Battery						
Buttery	Default					
Charging current	10 A	Default 20	A, regulatin		(< 10 A) / 5	A (> 10 A)
(selectable)	Max. 15 A	Max. 30 A	Max. 40 A	Max. 40 A	Max. 50 A	Max. 60 A
Equalizing charge voltage	Sing	le battery 14.	4 Vdc (defa	ult), 13.6 ~	15 Vdc set	table
Floating charge voltage	Single	e battery 13.7	′ Vdc (defaเ	ılt), 13.2 ~	14.6 Vdc se	ettable
DOD	Sing	le battery 10	.8 Vdc (defa	ault), 9.6 ~	13 Vdc sett	able
EOD	Singl	e battery 10.	2 Vdc (defa	ult), 9.6 ~	11.5 Vdc set	ttable
Reverse warning			Buzz	zer		
Alarm						
Switch on / off			Continuous	beep 2 s		
Low battery		Bee	p 0.2 s at in	terval of 0.	.4 s	
Overload		Be	ep 2 s at int	erval of 2.5	ō s	
Mains power abnormal		Be	ep 0.3 s at i	nterval of 5	5 s	
MPPT Modules (Optio	nal)					
Model	1	0 A / 20 A / 3	30 A / 40 A		/	1
Max. PV input voltage (Voc)		40 V		60 V	1	1
PV optimum operating voltage (Vmp)		18 V ~ 32 V			1	1
Max.PV power		120 W / 240 W / 360 W / 480 W			1	/
DC Modules (Optional)						
Model	5 V (2 A), 9 V / 12 V (1 A), 15 V / 24 V (1 A), 12 V / 24 V (10 A)			10 A)		
Others						
Protections		Overload – short-circuit – overvoltage – undervoltage – overcharge overtemperature – excessive low battery – missing insert				
Interface	LCD & BUZZER					
Operating temperature	0°C ~ 40°C					
Operating humidity	z 1000		elative hum			al 100 m'
Altitude	< 1000 m, (above 1000 m, derating 1% for each additional 100 m), 4000 m max.					
Net weight (kg)	8.0/8.5/7.4	10.9/11.4/11	14.0/14.6	18.0/18.5	32.0	36.0
Gross weight (kg)	9.0/9.5/8.4	11.9/12.4/12	15.0/15.6	19.0/19.5	34.0	38.0
Dimensions (W×D×H) mm	280×258×120 (w/o option) 293×280×160 (w/ option) 400×210×127 (Wall mounted) 293×280×160 302×479×2		79×209			
Packaged dimensions (W×D×H) mm	330×352×200 370×355×235 490×290×195 mounted)	(w/ option)	370×355×235 353×582×287		82×287	

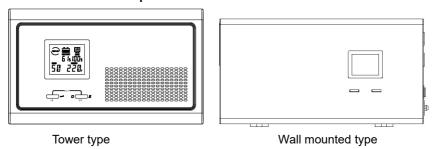
Note: Specifications are subject to change without notice.

### **Charging features**



## 2.2 Front panel features

### 300 W ~ 1600 W front panel

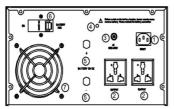


### 2500 W ~ 3500 W front panel



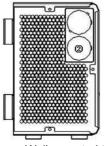
## 2.3 Rear panel features

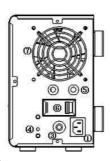
### 300 W ~ 1600 W rear panel



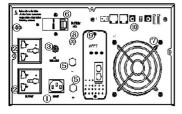
Tower type

- AC input socket
- Output sockets
- Overcurrent protector
- Buzzer for battery reverse
- S Battery wiring
- Battery breaker
- ⊕ Fan





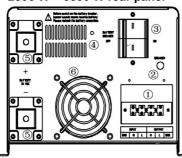
Wall mounted type



- DC output fuse
- MPPT (optional)
- DC output (optional)

Optional model (with MPPT / DC modules)

#### 2500 W ~ 3500 W rear panel

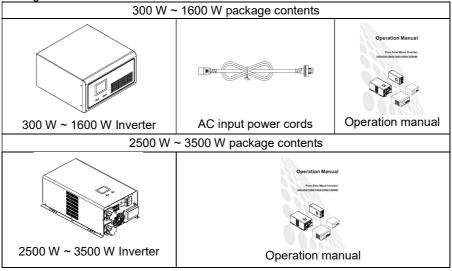


- ① Input/output terminal block
- ② Overcurrent protector
- 3 Battery breaker
- $\ensuremath{\scriptstyle \textcircled{\tiny 4}}$  Buzzer for battery reverse
- Battery wring terminal
- 6 Fan

## 3 Installation Instructions

## 3.1 Unpacking inspection

Inspect the contents upon receipt. Notify the carrier and dealer if the unit is damaged.



#### 3.2 Installation



The inverter is designed for indoor use. Do not operate this UPS in direct sunlight, in contact with fluids, or where there is excessive dust or humidity.

Place batteries in sound ventilation environment.

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

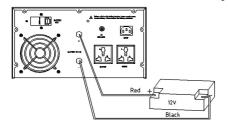
Be sure that the ground terminal has been connected with the ground.

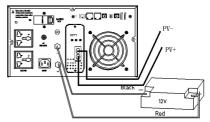
#### 3.2.1 Installation information

- Inspect whether the battery voltage and Mains voltage are correct or not.
- Connect the inverter with batteries, utility power and loads. Be sure all wiring is correct, terminals are screwed tightly and terminal cover is locked.
- Open the battery breaker, press ON button, then the inverter starts up in 3 seconds, and then check if the load has problem (overload, short-circuit ect.). If it does, check and correct until confirming it is normal, and then connect to the utility power.

#### 3.2.2 Connect external battery

#### 300 W / 600 W / 1000 W inverter battery connection

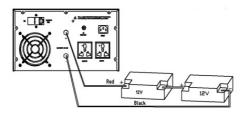


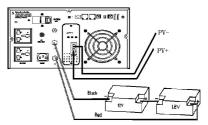


Optional model (with MPPT modules)

(Note that the red cable is connected to the positive terminal, black cable is connected to the negative terminal)

#### 1600 W inverter battery connection

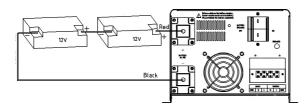




Optional model (with MPPT modules)

(Note that the red cable is connected to the positive terminal, black cable is connected to the negative terminal)

#### 2500 W / 3500 W inverter battery connection



(Note that the red cable is connected to the positive terminal, black cable is connected to the negative terminal, and 2500 W battery cable is more than 35  $\text{mm}^2$ , 3500 W battery cable is more than 50  $\text{mm}^2$ )

## 4 Operations

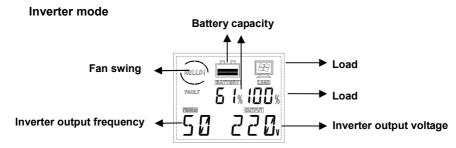


Turn on the inverter in battery mode first. Be sure that the load has no problem (overload, short-circuit ect.) before connecting to utility power.

#### 4.1 Turn the inverter On / Off

- Without connecting to utility power, press and hold "ON" button for 3 seconds, release it until the buzzer beeps, the inverter starts up. In the process of the inverter running, press and hold "OFF" button for 3 seconds, release it until the buzzer beeps, the inverter is shut down.
- When the inverter works in mains power / AC mode, press and hold "OFF" button for 3 seconds, release it until the buzzer beeps, the inverter goes to bypass mode.
- When the inverter works in bypass mode, press and hold "ON" button for 3 seconds, release it until the buzzer beeps, the inverter goes to AC mode.

## 4.2 Display interface



## Mains power mode



#### 4.3 MPPT & DC modules (Optional) status indicators

Modules	Status	LED Indicators	Action
	Normal PV charging	Yellow and green indicators are lit continuously	Operating is normal
	MPPT over-temperature	Red indicator is lit continuously	MPPT charging is turned off
Module	PV low voltage	Green indicator extinguishes	MPPT charging is turned off
	PV high voltage	Green indicator flashes	MPPT charging is turned off
	Battery overvoltage protection	Yellow indicator flashes	MPPT charging is turned off
DC Module	DC module output overload	Red indicator is lit continuously	Fuse of DC module is blown out, and output is interrupted

#### 4.4 Settings

#### 4.4.1 Setting operation

- In normal mode, press and hold "ON" + "OFF" button at the same time for 3 seconds to go to Setup mode.
- In Setup mode, press and hold "ON" + "OFF" button at the same time for 3 seconds to exit from Setup mode, and the setting are not saved.
- In Setup mode, press "ON" button for page turning to select configuration options.
- In Setup mode, press "OFF" button to configure current settings.
- In Setup mode, press "ON" button to turn to page "Save & Exit" interface, press
  "OFF" button and select "Y", then press "ON" button to confirm to save datas and
  exsit from Setup mode.
- After the setting is configured, shut down and restart the inverter before the settings takes effect.
- In normal mode and starting state, press "OFF" button to mute.
- If there is failure and failure is solved, press "OFF" button first and release it to press "ON" button, and restart the inverter for normal use.

## 4.4.2 General settings

Configure these settings at any time, using the display interface.

No.	Parameters	Default	Options	LCD Display
1	OUT: Rated output voltage of the inverter (option)	Value 220V	220V / 230V / 240V	007240
2	INP: Input power matching of the generator (option)	120%	10% ~ 120% (based on rated power)	INP 120
3	HZ: Rated output frequency of the inverter (option)	50HZ	50HZ / 60HZ	HZ 60
4	RANG: Input frequency range setting (option)	± 5%	± 5% ~ ± 15%	RRNG 5
5	B: Equalizing charge voltage (option)	14.1V	13.6V ~ 15.0V	8 15.0
6	F: Floating charge voltage (option)	13.5V	13.2V~14.6V	F 14.6
7	A: Battery low voltage alarm point setting (option)	10.8V	9.6V ~ 13.0V	A 9.5
8	E: End of discharge voltage (option)	10.2V	9.6V ~ 11.5V	E 11 . 5
9	CUR: Charging current (option)	10A (300W) 20A (600W ~3500W)	0 ~ 60A	CUR 60

		1	1	,
10	IECO: Inverter no-load ECO mode Note: If select "Y", check whether the configured load rate in " Inverter shutdown load rate" is correct or not, if not, change it. (option)	N	Y/N	IECO N
11	INLS: Inverter no-load shutdown function  Note: If select "Y", check whether the configured load rate in " Inverter shutdown load rate" is correct or not, if not, change it. (option)	N	Y/N	INF2 N
12	INLS: Setting of the load rate of UPS auto-shutdown, The load rate of shutdown needed on the scene shall prevail during application. (Shall be taken as valid only when DC supply power) (option)	3 %	3 % ~ 50 %	Z JNI
13	INLS: Setting of the delay time of UPS auto-shutdown, When load ≤ setting value, the system will shut down after the configured time.  (Shall be taken as valid only in battery mode) (option)	1 min	1 ~ 99 min	INF2
14	ACAU: AC self-starting function (option)	Y	Y/N	ясяи м
15	DCAU: DC auto restart function  Note: If select "Y", check whether the configured time in "DC auto restart time" is correct or not, if not, change it. (option)	N	Y/N	JCRU N
16	T: DC auto restart time (option)	1H	0.5H ~ 8.0H	T B OH

17	ITR: Input voltage display setting , displays the current rated voltage of the system; If select "100 // 240", the input voltage displays "100V // 240V", the transformer variable is <i>the</i> configured voltage value: rated voltage value. (option)  OTR: Output voltage display	OFF	200 - 240V UPS: OFF / 100 / 110 / 115 / 120; 100 - 120V UPS: OFF / 200 / 220 / 230 / 240 200 - 240V	ITR N
18	setting, displays the current rated voltage of the system; If select "100 // 240", the output voltage displays "100 V//240 V", the transformer variable is the configured voltage value: rated voltage value. (option)	OFF	UPS: OFF / 100 / 110 / 115 / 120; 100 - 120V UPS: OFF / 200 / 220 / 230 / 240	OTR N
19	SAVE: Save and Exit		Y/N	SALE N

# **5 Troubleshooting**

This section lists the status and alarm messages that the UPS might display. A suggested corrective action is listed with each display message to help you troubleshoot problems.

No.	Problem Description	Display Message	Corrective Action
1	AC output short circuit	SHORT	Check if the load is short circuited.
2	AC output voltage is too high		Contact the dealer or supplier from whom it was purchased.

3	AC output voltage is too low	PAULT L	Contact the dealer or supplier from whom it was purchased.
4	Output overload	LORI	Check the load.
5	Relay fault	PELAY	Contact the dealer or supplier from whom it was purchased.
6	MOSFET over-current	MOS C	Contact the dealer or supplier from whom it was purchased.
7	MOS overtemperature	MOS T	Decrease the operating load. Contact the dealer or supplier if the problem persists.
8	Connection of heat sink and temperature sensor abnormal	SENSOR	Contact the dealer or supplier from whom it was purchased.
9	Transformer overtemperature	TRAN T	Decrease the operating load. Contact the dealer or supplier if the problem persists.
10	Inverter AC output voltage is too high	INV H	Contact the dealer or supplier from whom it was purchased.
11	Inverter AC output voltage is too low	INV L	Contact the dealer or supplier from whom it was purchased.
12	Soft-start fault	SOFT	Contact the dealer or supplier from whom it was purchased.

13	BUS voltage is too high (Battery is overcharged )	8U5 H	Check the battery voltage. Contact the dealer or supplier if the problem persists.
14	Charging over-current		Contact the dealer or supplier from whom it was purchased.
15	Battery voltage is too high	BAT H	Check the battery voltage.
16	Battery over-discharge protection	EOJ	Check the battery voltage
17	Fault self-locking	LOCKEI	Wait for auto clearance or manually shut down and restart the inverter
18	CT fault	INV [T	Check the CT signal line

For DC module (optional) failure, replace the DC output fuse if the red LED indicator on the DC module is illuminated.