IST3 1-3KVA USER MANUAL



Important Safety Instructions

Save these instructions

This manual contains important safety instructions. Read all safety and operating instructions before operating the uninterruptible power systems (UPS). Adhere to all warnings on the unit and in this manual. Follow all operating and user instructions. This equipment can be operated by individuals without previous training.

Maximum load must not exceed that shown on the UPS rating label. The UPS is designed for data processing equipment. If uncertain, consult your dealer or local representative.

The 1-3kVA@200/208/220/230/240VAC is designed for use with a three-wire input (L,N,G).



The battery can present a risk of electrical shock and high short circuit current. Following precautions should be observed before replacing the battery.

- Wear rubber gloves and boots.
- Remove rings, watches and other metal objects.
- Use tools with insulated handles.
- Do not lay tools or other metal objects on the batteries.
- If the battery is damaged in any way or shows signs of leakage, contact your local representative immediately.
- Do not dispose of batteries in a fire. The batteries may explode.
- Handle, transport and recycle batteries in accordance with local representative.



Although the UPS has been designed and manufactured to ensure personal safety, improper use can result in electrical shock or fire. To ensure safety, observe the following precautions:

- Turn off and unplug the UPS before cleaning it.
- Clean the UPS with a dry cloth. Do not use liquid or aerosol cleaners.
- Never block or insert any objects into the ventilation holes or other openings of the UPS.
- Do not place the UPS power cord where it might be damaged.

1. Electromagnetic Compatibility

* Safety				
IEC/EN 62040-1-1				
* EMI				
Conducted EmissionIEC/EN 62040-2	Class A			
Radiated EmissionIEC/EN 62040-2	Class A			
*EMS				
ESDIEC/EN 61000-4-2	Level 4			
RSIEC/EN 61000-4-3	Level 3			
EFTIEC/EN 61000-4-4	Level 4			
SURGEIEC/EN 61000-4-5	Level 4			
Low Frequency SignalsIEC/EN 61000-2-2				

Warning: This is a product for commercial and industrial application in the second environment-installation restrictions or additional measures may be needed to prevent disturbances.

NOTICE

This is a product for restricted sales distribution to informed partners. Installation restrictions or additional measures may be needed to prevent radio interference.

Operated the UPS in an indoor environment only in an ambient temperature range of 0-40_C(32-104_F). Install it in a clean environment, free from moisture, flammable liquids, gases and corrosive substance.

This UPS contains no user-serviceable parts except the internal battery pack. The UPS on/off push buttons do not electrically isolate internal parts. Under no circumstance attempt to gain access internally, due to the risk of electric shock or burn.

Do not continue to use the UPS if the panel indications are not in accordance with these

operating instructions or the UPS performance alters in use. Refer all fault to your dealer.

Servicing of batteries should be performed or supervised by personnel knowledgeable of batteries and the precautions. Keep unauthorized personnel away from the batteries. Proper

disposal of batteries is required. Refer to your local laws and regulations for disposal requirement.

DO NOT CONNECT equipment that could overload the UPS or demand DC current from the UPS, for example: electric drills, vacuum cleaners, laser printers, hair dryer or any appliance using half-wave rectification.

Storing magnetic media on top of the UPS may result in data loss or corruption.

Turn off and isolate the UPS before cleaning it. Use only a soft cloth, never liquid or aerosol cleaners.

2. Introduction

Congratulations on your choice of the uninterruptible power system(UPS), the UPS comes in nominal power ratings of 1000VA,2000VA and 3000VA. It is designed to provide conditioned power to microcomputers and other sensitive electronic equipment.

When it is generated, alternating current is clean and stable. However, during transmission and distribution it may be subject to voltage sags, spikes and complete power failure that may interrupt computer operations, cause data loss and even damage equipment. The UPS protects equipment from these disturbances.

The UPS is a compact, on-line UPS. An on-line UPS continuously conditions and regulates its output voltage, whether utility power is present or not. It supplies connected equipment with clean sinewave power. Sensitive electronic equipment operates best from sinewave power. For ease of use, the UPS features a LCD display to indicate all information for UPS, and provide kinds of function buttons.

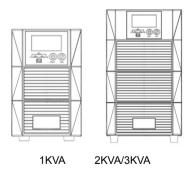


Fig 1. Front View

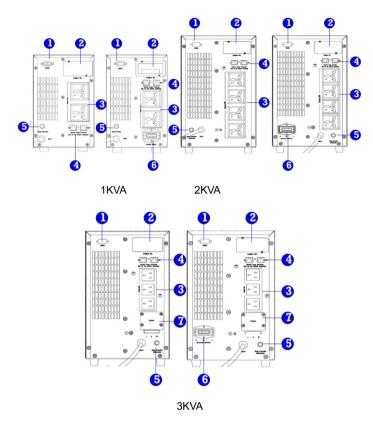
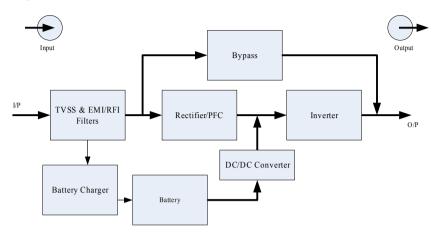


Fig 2. Rear View

1	RS-232 communication port. DB9 type.
2	Intelligent slot port. SNMP card for network monitoring. Intelligent card or non-pluggable dry contact card for user extending.
3	Output socket. 10A max for each one.
4	Network surge protection. Only for network connection.
5	Input surge protection slot.
6	External battery connector
7	3kVA output terminal, for big current load

3. System Description



3.1 Transient Voltage Surge Suppression (TVSS) and EMI/FRI Filters

These UPS components provide surge protection and filter both electromagnetic interference (EMI) and radio frequency interference (RFI). They minimize any surge or interference present in the utility line and keep the sensitive equipment protected.

3.2 Rectifier/Power Factor Correction (PFC) Circuit

In normal operation, the rectifier/power factor correction (PFC) circuit converts utility AC power to regulated DC power for use by the inverter while ensuring that the waveform of the input current used by the UPS is near ideal. Extracting this sinewave input current achieves two objects:

- The utility power is used as efficiency as possible by the UPS.
- The amount of distortion reflected on the utility is reduced.

This results in cleaner power being available to other devices in the building not being protected by the UPS.

3.3 Inverter

In normal operation, the inverter utilize the DC output of the power factor correction circuit and inverters it into precise, regulated sinewave AC power. Upon a utility power failure, the inverter receives its required energy from the battery through the DC-to-DC converter. In both modes of operation, the UPS inverter is on-line and continuously generating clean, precise, regulated AC output power.

3.4 Battery Charger

The battery charger utilizes energy from the utility power and precisely regulates it to continuously float charge the batteries. The batteries are being charged whenever the UPS is connected to utility power.

3.5 DC-to-DC Converter

The DC-to-DC converter utilizes energy from the battery system and raises the DC voltage to the optimum operating voltage for the inverter. The converter includes boost circuit which is also used as PFC.

3.6 Battery

The standard model include value-regulated, non-spillable, lead acid batteries inside. To maintain battery design life, operate the UPS in an ambient temperature of 15-25 ...C.

3.7 Dynamic Bypass

The UPS provides an alternate path for utility power to the connected load in the unlikely event of a UPS malfunction. Should the UPS have an overload, over temperature or any other failure condition, the UPS automatically transfers the connected load to bypass. Bypass operation is indicated by an audible alarm and illuminated amber Bypass LED.

NOTICEThe bypass power path does NOT protect the connected equipment from disturbances in the utility supply.

4. Product Specification and performance

4.1 Model Description

This manual is applicable to the following models:

Model No.	Туре
IST3	Standard model
IST3L	Long backup model

[&]quot;L" Model: Long backup time,

4.2 Product Specification and Performance

1. General Specification

Мо	odel	Long Standard		Long Standard		Long	standard
Power	Rating	1KVA/0.9KW		2KVA/1.8KW		3KVA/2.7KW	
Freque	ncy (Hz)	50/60 50/60 50/60			/60		
Input	Voltage			110Vac	~288Vac		
	Current	5.5A	max.	11A	max	16A	max
Battery	Voltage	36\	/DC	72VDC		96VDC	
	Current	35A max		35A max		37A max	
Output	Voltage	200V/208V/220V/230V/240V					
	Current	5/4.8/4.5/4.3/4.2A		10/9.6/9	/8.6/8.4A	15/14.4/13	.5/12.9/12.6
		A			A		
Dime	ension	144*353*222 19		190*3	74*336	190*4	26*336
(WxD)	cH) mm						
Weig	ht (kg)	6	12	10	21	11	26

2. Electrical Performance

Input					
Model	Voltage	Frequency	Power Factor		
1-3KVA	Single-phase	40-70Hz	>0.98(Full load)		

	Output					
Voltage	Power	Frequency	Distortion	Overload capacity	Crest ratio	
Regulation	Factor	tolerance.				
±1%	0.9 lag	±0.5% of	THD<1%@Fu	130% load: transfers to	3:1	
		normal	II Linear Load	Bypass mode after 1	maximum	
			THD<6%@Fu	minutes		
			Il nonlinear	150% load: transfers to		
			load	Bypass mode after 0.5		
				minute		

3. Operating Environment

Temperature	Humidity	Altitude	Storage temperature
0_C-40_C	<95%	<1000m	-20 ₋ C-70 ₋ C

NOTICE: If the UPS is installed or used in a place where the altitude is above than **1000m**, the output power must be derated in use, please refer to the following:

Altitude (M)	1000	1500	2000	2500	3000	3500	4000	4500	5000
Derating Power	100%	95%	91%	86%	82%	78%	74%	70%	67%

5. Installation

NOTICE UPS operation in sustained temperature outside the range of 15-25 \(\textit{LC} \) (59 \(\textit{L} = 77 \) \(\textit{F} \) reduces battery life.

5.1 Unpacking and Inspection

- 1) Unpack the packaging and check the package contents. The shipping package contains:
 - 1 UPS
 - 1 user manual
- Inspect the appearance of the UPS to see if there is any damage during transportation. Do not turn on the unit and notify the carrier and dealer immediately if there is any damage or lacking of some parts.

5.2 Connect Input/Output Power

5.2.1 Notes for installation

- The UPS must be installed in a location with good ventilation, far away from water, inflammable gas and corrosive agents.
- Ensure the air vents on the front and rear of the UPS are not blocked so as to ensure good ventilation.
- 3) Condensation to water drops may occur if the UPS is unpacked in a very low temperature environment. In this case it is necessary to wait until the UPS is fully dried inside out before proceeding installation and use. Otherwise there are hazards of electric shock.

5.2.2 Installation

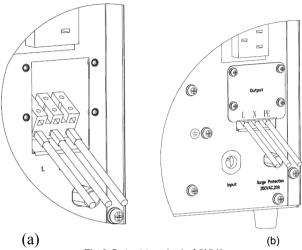
- 5.2.2.1 Connecting Input and Output Cables
 - 1. Input cable connection

The UPS is connected via the power plug, please use a proper socket with protection against electric current, and pay attention to the capacity of the socket: over 10A for 1KVA, over 16A for 2KVA and 3KVA.

2. Output cable connection

The total output power shall not exceed 1kVA/0.9kW,2kVA/1.8kW,3kVA/2.7kW. Simply plug the load power cable to the output socket of UPS to complete connection.

*Except from using socket as output, 3KVA has output terminal as well for load which current is over 10A.



- Fig.3 Output terminal of 3KVA
- 1). Remove the cover of output terminal
- 2). Use AWG14 wires for terminal wiring configuration as fig.3(a)
- 3). Please check if the wires are securely affixed
- 4). Put back the cover to the rear panel as fig.3(b).

5.3 Operating procedure for connecting the long backup time model UPS with the external battery

 The nominal DC voltage of external battery pack is 36VDC/1kVA, 72VDC/2kVA, 96VDC/3kVA. Connect in series the batteries of the pack to ensure proper battery voltage. To achieve longer backup time, it is possible to connect multi-battery packs, but the principle of "same voltage, same type" should be strictly followed.

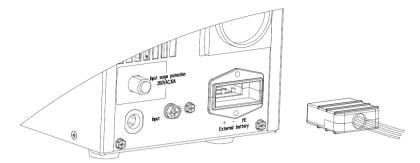


Fig.4 Battery terminal connection

- 2. Take out battery cable delivered with the UPS. One end of battery cable is a plug and the other end has 2 open wires.
- 3. Connect the RED wire to the "+" terminal of the battery. Connect the BLACK wire to the "-" terminal of the battery.

Notice: DO NOT connect the battery plug to the battery socket of UPS first, otherwise, it may cause electric shock.

4. Connect the external battery plug to the battery socket on the rear panel.

6. Controls and Indicators

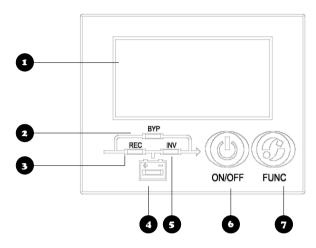


Fig.5 Display Panel

Description of Panel

Controls	Description
6	1.Press ON/OFF to start UPS when utility is normal
ON/OFF	NOTE
	It only bases on default setting(manual start)
	2.Press ON/OFF to start from battery directly when there is no
	main input, press again to start UPS upon buzzer alarms
	3.Press ON/OFF to shutdown inverter when UPS is in normal
	mode.
	4.Press ON/OFF to shutdown UPS completely when UPS is in
	battery mode
	5.Press ON/OFF to ensure the rated parameter setting
7 FUNC	1.Press FUNC button to transfer in different menus

	2.Press FUNC button for 3 seconds to mute off
	3.Press FUNC and ON/OFF together for 2.5 seconds to set rated
	parameters when only power supply is on
Indicators	Description
3	Rectifier indicator:
REC	greenrectifier is normal,
	green flickerrectifier is starting,
	dark—rectifier is not working
6	Inv indicator:
Inv	greeninverter is normal
	green flickerinverter is starting or tracking with bypass(ECO) dark
	—inverter is not working
	Bypass indicator:
ВҮР	yellow—bypass is normal
	dark—bypass is not working
A	Battery indicator:
ват	yellow—battery discharge or charged
	yellow flicker—battery is not connected, battery is low or charger is
	failure
	dark—battery is connected

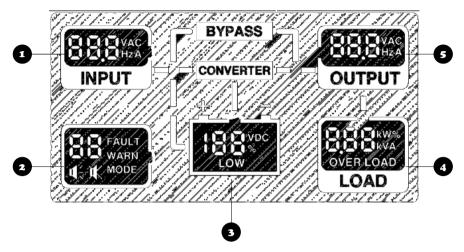


Fig 6. LCD Main Menu

Description of Main Menu

Display	Function	Submenu
	Input information	Input voltage(VAC),
		Input frequency(Hz),
		Input current(A)
	Warn information	Fault code(FAULT),
2		Warn code(WARN),
		working mode(First number: n-
		normal mode, E-ECO mode.
		Second number: rated voltage and
		frequency 0-200V/50Hz, 1-
		200V/60Hz, 2-208V/50Hz, 3-
		208V/60Hz, 4-220V/50Hz, 5-
		220V/60Hz, 6-230V/50Hz, 7-
		230V/60Hz, 8-240V/50Hz, 9-
		240V/60Hz) mute on (1), mute

		off(()
3	Battery information	Battery voltage(VDC), Capacity(%) if needed, Firmware version, Battery low warn(LOW)
4	Load information	Load percent(%) Active load(kW) Apparent load(kVA) Protocol code in setting mode
5	Output information	Output voltage(VAC) Output frequency(Hz) Output current(A)

Note: Press "FUNC" button to see different information.

7. Operation

7.1 Operation Mode

1. Turn on the UPS in normal mode

- After you make sure that the power supply connection is correct, and then close the battery breaker (this step only for long backup time model), after that turn on the utility power. At this time the fans rotate, and LCD is on
- Press ON/OFF for about 2.5 seconds, REC led will green flicker and BYP led goes steady yellow. Inverter will start and the INV green led flickers when REC led is green

NOTE

In some application, UPS is set to start automatically, there will be something different

About several seconds, the UPS turn into normal Line mode. If the utility power is abnormal, the UPS will operate in Battery mode without output interruption of the UPS

2. Turn on the UPS from battery without utility power

- After you make sure that the breaker of the battery pack is in the "ON" position (this step only for long backup time model), press the ON/OFF button once to power on the LCD, then press ON/OFF button again for 2.5 seconds when the buzzer alarms
- 2) A few seconds later, the UPS turns into Battery mode, and inverter feed the load.

3. Turn off the UPS in normal mode

- 1) Press ON/OFF button in condition of normal mode
- 2) Turn off utility power
- 3) If it's a long backup model, open the battery breaker to turn off UPS completely. If it's an internal battery model, press ON/OFF button for about 2.5 seconds and then UPS will shutdown completely after several seconds.

4. Turn off the UPS in battery mode

- To power off the UPS by pressing the ON/OFF button continuously for more than 2.5 second
- 2) When being powered off, the UPS will turn into No Output mode. Finally not any display is shown on the display panel and no voltage is available from the UPS output.

NOTICE: Please turn off the connected loads before turning on the UPS and turn on the loads one by one after the UPS is working in INV mode. Turn off all of the connected loads before turning off the UPS.

8. Battery maintenance

1-3KVA UPS only requires minimal maintenance. The batteries used for standard models are value regulated, sealed lead-acid, maintenance free battery. When being connected to the utility power, whether the UPS is turned on or not, the UPS keeps charging the batteries and also offers the protective function of overcharging and over-discharging.

- The UPS should be charged once every 4 to 6 months if it has not been used for a long time.
- In the regions of hot climates, the battery should be charged and discharged every
 2 months. The standard charging time should be at least 12 hours.
- Under normal conditions, the battery life lasts 3 to 5 years. In case if the battery is found in bad condition, earlier replacement should be made.
- Battery replacement should be performed by qualified personnel.
- Replace batteries with the same number and same type of batteries.
- Do not replace the battery individually. All the batteries should be replaced at the same time following the instructions of the battery supplier.

9. Notes for battery disposal and replacement procedures

9.1 Battery Disposal

- Before disposing of batteries, remove jewelry, watches and other metal objects.
- Use rubber gloves and boots, use tools with insulated handles.
- If it is necessary to replace any connection cables, please purchase the original materials from the authorized distributors or service centers, so as to avoid overheat or spark resulting in fire due to insufficient capacity.
- Do not dispose of batteries or battery packs in a fire. The batteries may explode.
- Do not open or mutilate batteries, released electrolyte is highly poisonous and harmful to the skin and eyes.
- Do not short the positive and negative of the battery electrode, otherwise, it may result in electric shock or fire.
- Make sure that there is no voltage before touching the batteries. The battery circuit
 is not isolated from the input potential circuit. There may be hazardous voltage
 between the battery terminals and the ground.
- Even though the input breaker is disconnected, the components inside the UPS are still connected with the batteries, and there are potential hazardous voltages.
 Therefore, before any maintenance and repairs work is carried out, switch off the breaker of the battery pack or disconnect the jumper wire of connecting between the batteries.
- Batteries contain hazardous voltage and current. Battery maintenance such as the battery replacement must be carried out by qualified personnel who are knowledgeable about batteries. No other persons should handle the batteries

9.2 Battery Replacement Procedures

- 1) Turn off UPS completely.
- Remove covers from the UPS.
- 3) Disconnect the battery wires one by one.
- 4) Remove metal bars which are used to fasten batteries.
- 5) Replace batteries one by one.
- Screw metal bars back to UPS.
- Connect the battery wires one by one. Take care of electrical shock while connecting the last wire.

10. Trouble shooting

This section describes checking the UPS' status. This section also indicates various UPS symptoms a user may encounter and provides a troubleshooting guide in the event the UPS develops a problem. Use the following information to determine whether external factors caused the problem and how to remedy the situation.

10.1 Checking UPS status

It recommended that checking the UPS operation status every six months.

- Check whether the UPS is faulty: Is the Fault Indicator on? Is the UPS sounding an alarm?
- Check whether the UPS is operating in Bypass mode. Normally, the UPS operates
 in Normal Mode. If it is operating in Bypass Mode, stop and contact your local
 representative, or Channel Support.
- Check whether the battery is discharging. When the utility input is normal, the battery should not discharge. If the UPS is operating in Battery Mode, stop and contact your local representative, or Channel Support.

10.2 Adjust the factors caused the problem

When the fault indicator is on, press FUNC button to see the fault code and warn code. And fault and warn codes are listed as following:

Code	Event	Possible cause	Solution
16	Warn: Input	Utility is failure	1
	voltage abnormal	Input surge	If utility is normal but rectifier is not
		protector opens	working, reset input surge protector
18	Warn: Line neutral	Input Line and	Check the polarity of line wire and neutral
	wires reversed/PE	neutral is reversed	wire
	not grounded	PE wire is not	Check if PE on input plug is shorted with
		connected	UPS rear panel. If not ,contact with
		correctly in UPS	distributer or service center. If yes,
			please check PE wire in input power
			socket

20	Warn: Bypass voltage abnormal	Bypass voltage is out of bypass range or is off	Check if utility power is indeed out of range.
24	Warn: Bypass over load	Load is on bypass and is overload	Remove some loads to ensure that total loads is less than 95% of rated capacity
26	Warn: Bypass overload timeout	Load is on bypass and overload. Overload time is longer than the overload capacity of bypass. UPS will shutdown output and loads will loss power.	Remove some loads and restart UPS again. When UPS is working normally, turn on loads one by one.
30	Warn: Transfer times over limit in 1 hour	Transfer times between inverter and bypass is over 5 in recent 1 hour. UPS works in bypass mode.	Check if output is overload or some loads are shorted. Remove the failure loads and restart the UPS or wait for starting inverter automatically.
32	Warn: output shorted	Something shorted	Please remove all loads from UPS output. Check if UPS output is shorted. If not, please check all loads.
34	Warn: End of discharge	UPS works in battery mode for long time after utility failure. UPS output will be off until utility power is on.	Please save your data when UPS alarm "utility fail"
38	Warn: Battery test failure	Battery capacity is low or load is low.	Please ensure that battery voltage is higher than 36VDC and the load is more than 30%.
47	Fault: Rectifier	Bus over voltage,	Please contact with distributer or service

	fault	bus unbalance,	center.
	ladit	rectifier starting	Series.
		failure, bus under	
		voltage, input fuse	
		is off	
49	Fault: Inverter fault		Please contact with distributer or service
49	Fauit. Inverter fauit	Inverter over	
		voltage, inverter	center.
F4	Facility LIDO access	under voltage,	Discours that mathematical
51	Fault: UPS over	Environment	Please ensure that nothing blocks
	temperature	temperature is	ventilation and environmental temp must
		higher than	be 0~40_C
		permitted point,	
		ventilation is	
		blocked	
53	Fault: Fan failure	One or more fans	Please contact with distributer or service
		are failure, fan	center
		wires are loosen	
55	Fault: Inverter	Loads are on	Remove some loads to ensure that total
	overload	inverter and over	loads is under the capacity of the UPS
		the capacity of the	
		UPS	
57	Fault: Inverter	Load is over the	Remove some loads to under 95%, UPS
	overload timeout	capacity of the	will transfer to inverter automatically
		UPS and timeout,	
		UPS will transfer	
		to bypass mode if	
		bypass is available	
65	Fault: Battery low	UPS works in	Recover input power or save data upon
		battery and battery	"battery low"
		voltage is low	
71	Fault: Charger	There is no	Please contact with distributer or service
' '	l auit. Chargei		
	fault Charge	charger output.	center
72			center Please contact with distributer or service

		rectifier.	
74	Warn: Manual	UPS will shutdown	1
	shutdown	output or transfer	
		to bypass mode	
/	Battery discharge	The battery has	Charge the battery for more than 10
	time diminishes	not been fully	hours
		charged	
		UPS is overload	Check the loads and remove some
			devices
		Battery aged	Replace the batteries. Please contact
			with distributer or service center to obtain
			replacement components for batteries.

NOTICE

Please provide the following information when reporting fault UPS:

- The UPS model and serial NO.
- ■② Detail of fault, include LED indicates, buzzer beeps, power condition, load capacity and configuration of battery(long backup time model)

Annex A. Intelligent Slot

There are two types of intelligent slot for option: DB9, phoenix terminator.

Max output current for intelligent slot is 1A.

The functions of intelligent slot are listed as fig.7:

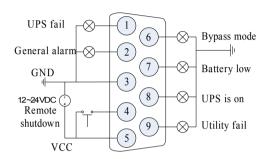


Fig.7 User wiring diagram of intelligent slot

Description of intelligent slot:

Pin NO.	Function	Description
1	UPS fail	Low voltage if something is failure in UPS. If not, high voltage
2	General alarm	Low voltage if something is abnormal. If not, high voltage
3	GND	Common connection
4	Remote shutdown	UPS shutdowns rectifier and inverter if utility is normal. UPS
		shutdowns completely if in battery mode. Close switch to
		activate.
5	Power supply	12VDC~24VDC, external power supply
6	Bypass mode	High voltage if UPS works in bypass mode. If not, low voltage
7	Battery low	Low voltage if battery voltage is low. If not, high voltage
8	Normal mode	High voltage if UPS works in normal mode. If not, low voltage
9	Utility fail	Low voltage if utility is failure. If not, high voltage.

Annex B. EPO

EPO(emergency power off) is optional function to shutdown UPS completely at emergency condition. This function can be activated through a remote contact provided by the user. It requires opening NO and +24V at normal operation. EPO is activated when shorting NO and +24V.

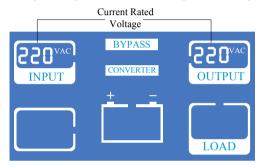
Description of Input Port for Remote EPO

Position	Name	Purpose
P1	+24V	+24V, internal power supply
P2	EPO_NO	EPO is activated when shorting with +24V

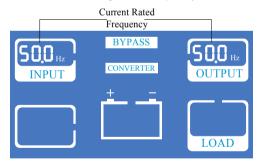
Annex C. Rated Parameters Setting

Rated parameters of HT11 1-3K UPS can be set from panel. Please set rated parameters in according to the following procedures:

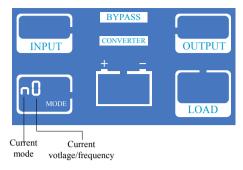
- 1) Start UPS power supply and ensure that rectifier, inverter, bypass and discharge are not working.
- Press ON/OFF and FUNC together for 2.5 seconds to enter in setting mode, all LEDs flicker.
- 3) Voltage setting: press FUNC to change rated voltage. Shown as following:



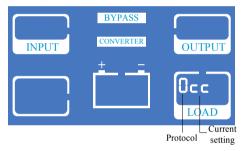
4) Frequency setting: Press ON/OFF to choose voltage and enter in frequency setting. Press FUNC to change rated frequency. Shown as following:



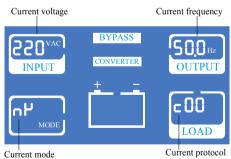
5) Mode setting: press ON/OFF to choose frequency and enter in mode setting, press FUNC to change mode. First code: n-normal mode, E-ECO mode. Second code indicated current voltage/frequency are listed in description of main menu in section 6.



6) Protocol setting: press ON/OFF to choose mode and enter in protocol setting. Codes are shown in LOAD, press FUNC to change protocol. First code: 0-Modbus, 1-SNT, "CC"current protocol.



7) Press ON/OFF to choose protocol and display current setting.



- 8) Press ON/OFF to save current setting and exit. If want to change, press FUNC and repeat the procedures above.
- 9) If you want to exit from setting mode and give up saving, press ON/OFF and FUNC together for 2.5 seconds when in setting mode.
- 10) Restart and check if the setting is right.