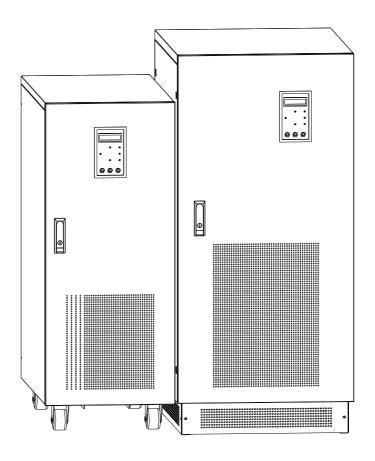
On-Line Uninterruptible Power Supply



EPI SERIES

USER MANUAL

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Due to the continuous improvement of this product, there will be no further notice for amendments of manual. If there is inconsistency between the manual and the actual product, the actual product shall govern.

1 INTRODUCTION

1.1 Thanks

Thank you for your purchasing of UPS, its design is safe, reliable and needless to maintain.

1.2 Reading

Please read this manual, it contains safe installation and operating introduction. It helps you to get the optimal using life and service. The manual recounts UPS internal working way and relative protection function.

1.3 Brief introduction

EPI series on-line UPS is a new generation intelligent-type UPS specially designed for finance system, telecom system, electric power system, intelligent building, working station to meet the high quality and high reliability requirement of the system to power supply.

1.4 Characteristic

• computer port

UPS intelligent monitoring function can be got by the computer port. The detail refers to the Section 9 and *UPS intelligent monitoring software user manual*.

●LCD display

The running status, load capacity and battery capacity are clear at a glance on LCD on UPS control panel. You can master the change of UPS power supply quality of and running environment at any time.

electron bypass switch

When UPS is faulty, the bypass will be activated at once and supply power to

load through the built-in static electron bypass switch, at the same time the buzzer sounds alarm for long-time.

• intelligent battery charger

When UPS has found AC input, the high-power charger can automatically be started up and float charge battery circularly after extending for 10ms, avoiding mangle because it can't be supplied in time after battery discharged. Safety

• Hot-standby feature (Optional for 8-10K)

Integrated the master and slave function into every UPS. You can take off the jumper from the terminal block to make one UPS serve as Master.

• Parallel Redundancy

Parallel redundancy enable the many UPS to parallel directly, which can improve the load's reliability and stability.

electron bypass switch

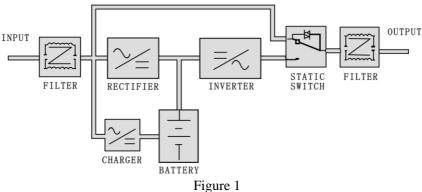
When UPS is faulty, the bypass will be activated at once and supply power to load through the built-in static electron bypass switch, at the same time the buzzer sounds alarm for long-time.

2 SAFETY

- To reduce the danger of electric shock caused because load equipment isn't good connected to the grounding, when installing computer port signal cable, please switch off the AC input power, only after all signal cables have good connected, you can connect the power.
- There must be proper branch protector (Breaker) on UPS connecting to AC input power with grounding. That of connecting to any other type socket will cause electric shock and infringe local electrical rule.
- Do not attempt to maintain UPS, there isn't any parts maintained by user in UPS. There is potential damage voltage in UPS and the services can only be performed by the trained regular person. If user make bold to maintain and refit UPS, the warranty qualification will be canceled.

WORKING FLOW 3

3.1 UPS system configuration block figure: figure 1



3.2 UPS's running way when UPS runs normally

When UPS runs normally, after high-frequency harmonic noise in utility power is filtered by the filter, on the one hand utility power charges battery pack via the inverter and keeps battery power on full voltage level and on the other hand utility power is converted into direct current via the rectifier and is transferred into pure sine ware power via the inverter, finally power is transmitted to user equipment for using via the static switch and the filter. As figure 2.

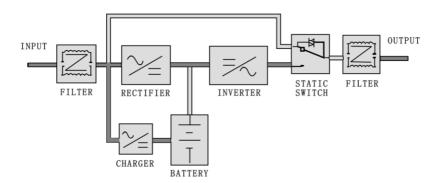


Figure 2

3.3 UPS's running way when utility power is disconnected

As figure 3, when utility power is disconnected, power is supplied to the inverter by the battery and then is transmitted to user equipment for using via the static switch and the filter to avoid the case that load isn't supplied power.

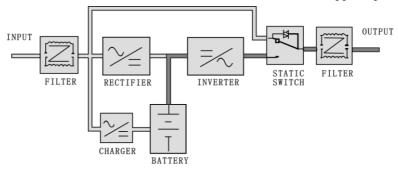


Figure 3

3.4 UPS's running way when UPS supplies power on bypass mode

There are five kinds of status when UPS supplies power on bypass mode. As figure 4

- 1.overload
- 2. inverter failure
- 3.when switch on, UPS is in the course of slow startup during pressing the "SWITCH ON" button for 20 seconds
- 4. When switch off, please press the "SWITCH OFF" button.
- 5.UPS runs under the condition of internal over-temperature.

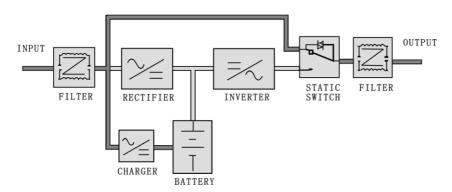


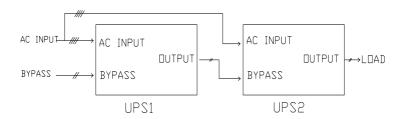
Figure 4

3.5 Operating principle of UPS series hot-standby

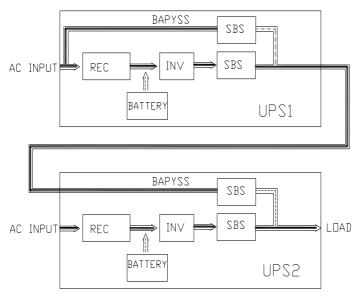
Connect the output of the slave with the bypass input of master

The Master (UPS2) will switch to bypass mode in case of failure, while the slave (UPS1) will act as the power supply for load. The load will be supplied by mains only by the occurrence of both failure of UPS2 and UPS1.

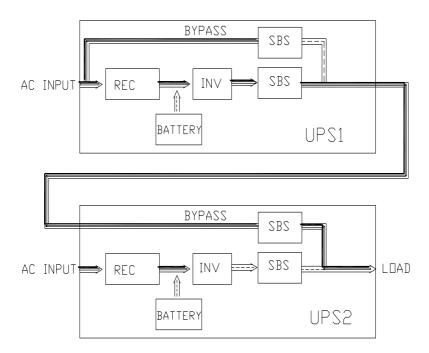
Wiring map:



(1) When normally working, the AC of UPS2 powers the load via rectifier and inverter, while the AC of UPS1 is provided to UPS2 bypass after converted by rectifier and inverter. The working mode is as follows:

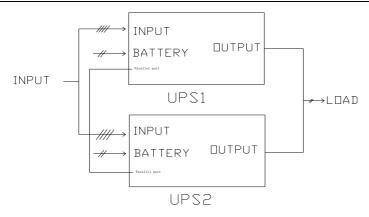


(2) When the UPS2 fails, it will transfer to bypass. At the moment, the output of UPS1 supplies the load via the UPS2 bypass. The working mode is as follows:



3.6 When paralleling, the swift adjustment of control unit enable the output waveform, phase and amplitude of each UPS to keep coincident, thus to realize the current sharing.

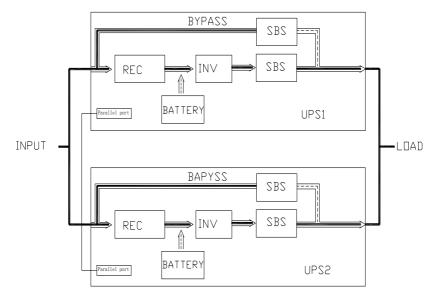
Wiring map:



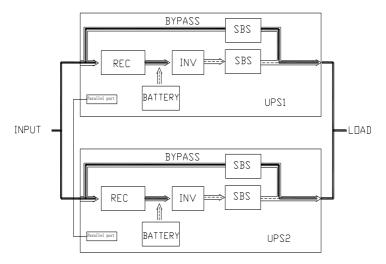
Note: When parallel, make sure that the phases of AC input and bypass of each UPS should be keep coincident.

All the UPS can share the battery group when paralleling.

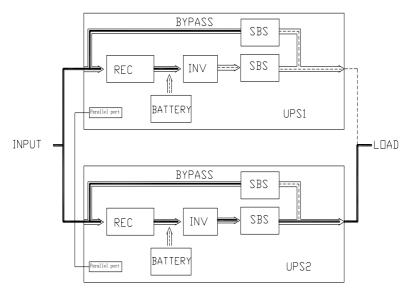
(1) The load is equally shared when the UPS is connected in parallel. Operation mode:



(2) When one UPS fails, it will withdraw from the parallel system rather than switching to bypass mode. The load will be supplied by other UPS. Working mode is as follows:



(3) When the UPS not start up or all the UPS fail in the parallel system, all the units will transfer to bypass mode. Working mode is as follows:



3.7 Application configuration for series and parallel connection

(1) The load would get pure current and protection from UPS1 when series connected in the case of UPS2's abnormality. UPS2 and UPS1 are loaded respectively in both mode and the max load power can be fixed according to the one with smaller power.

Example: If the power of UPS2 and UPS1 are both 10KVA~(8KW), the max load would be 8KW; if the power of UPS2 is 10KVA~(8KW), and the UPS1 is 8KVA~(6.4KW), the max load would be 6.4KW.

(2) In parallel system, the load is equally shared by each UPS(the power difference is less than 5%). In order to ensure other UPS can power the load when one unit fails, so:

The max load power= N (the power of whole parallel system)-1 (power for single unit).

Eg. 3pcs of UPS with 20KVA (16KW) are connected in parallel, the load power can be arrived at 32KW. Calculated as follows:

$$N (16kw*3)-1(16kw)=32KW$$

4 APPEARANCE

4.1. Display/Control panel(Figure 5)

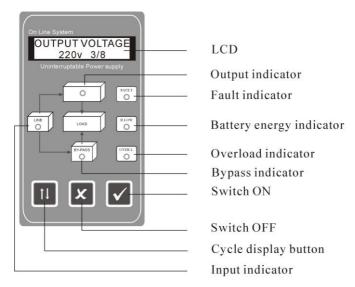


Figure 5 . Symbol instruction of front panel indicator

1) Welcome screen

WELCOME TO

 $\times \times \times \times \times \times \times \times \times$

2) Display of system status

3) Display of input voltage value*

ON LINE

AC IN: 220V

4) Display of input frequency value*

ON LINE

AC FRE: 50Hz

5) Display of output voltage value*

ON LINE

OUTPUT: 220V

6) Display of output frequency value

ON LINE

OUT FRE: 50Hz

7) Display of output power Percent

ON LINE

LOAD: 80%

8) Display of battery voltage value

ON LINE

BATTERY: 218V

9) Temperature display in machine

ON LINE

TEMP: 33℃

Note: ON BYPASS mode, the output voltage and frequency are displayed be "0" .LED would display only after the unit is switched on.

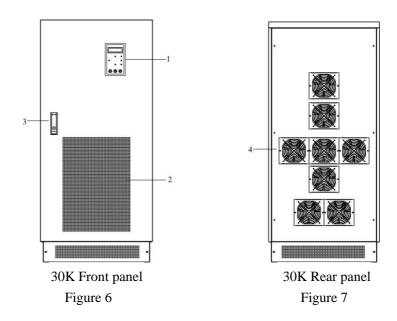
*These parameters vary with machine model.

- 10) LCD cycle display switch button: digital signal display items switch button.
- 11) UPS switch button: UPS general switch button.
 - (1) Turn on UPS inverter by pressing the "ON" key. UPS convert to UPS inverter power output 20s later, UPS pure AC output power is supplied by UPS internal power supply equipment.
 - (2) By keeping pressing the OFF switch for 3s, we can shut down the inverter, turn the UPS to bypass mode.

The button acts as general switch mainly.

4.2 Machine appearance

- 1). Display/Control panel.
- Scattering heat ventilation hole:
 The ventilation hole and other small long elliptic ventilation holes all need to keep good ventilation.
- 3). Gate lock: Control the UPS switch and do connection when opening it
- 4). Air blower



4.3 Switch position

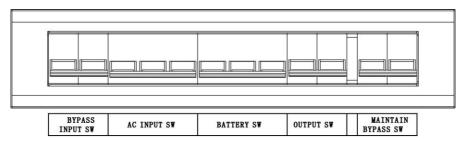


Figure 8 15-30K

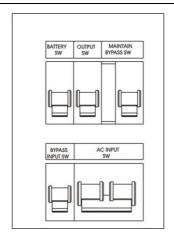


Figure 9 8-10K

- 1. BYPASS INPUT SW: Bypass input switch. When close it, the bypass is powered.
- 2. AC INPUT SN: AC input switch. When close it, the AC inputs and then converted to DC via the rectifier.
- 3. BATTERY SW: Battery switch. When close it, the battery is connected and begins to charge and discharge.
- 4. OUTPUT SW: Output switch. When close it, the power outputs
- 5. MAINTAN BYPASS SW: Maintenance bypass switch. When close it, the AC powers the load directly without UPS, which is used for maintenance.

5 POSITIONING

5.1 Transit or movement

- 1. Please dismantle all barge-connecting cable firstly. (Perform after turn off)
- 2. Careful and light placement, forbid any hit.
- 3. Please do not move UPS inverted.

5.2 Placement

- 1. Do not place the UPS on slope or scraggy land.
- Please place the UPS in the place where keeps good ventilation, UPS's back face and side face should be more than 10cm away from the room wall.
- 3. Do not position UPS in sunshine, drain and damp place.
- 4. Please keep UPS away from fire source and high temperature avoiding over-high temperature. (Figure 7)
- 5. Do not lay goods on the UPS. (Figure 8)
- 6. Do not position UPS in the place where contains caustic gas. (Figure 9)
- 7. Running environment temperature: 0°C-40°C

6 INSTALLATION

6.1 AC Input

- Prohibit using general household receptacle, because the Max current of general receptacle is 15A, the socket may be burned down for overload.
- 2. Please connect UPS input terminal to utility power switchboard close. (Figure 10).

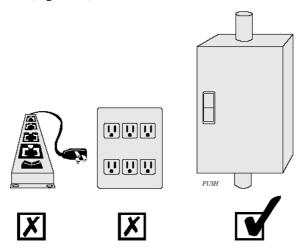


Figure 10

Note: Don't make anti-connection of polarity

- 3. Simple identification way of power polarity:
 - (1) Firing line (R, S, T): There is 380V voltage between Line and Line.
 - (2) Neutral (N): there is 220V voltage to Firingline, there is 0.5-2V voltage to Grounding.
 - (3) Grounding(G): Please find real connecting point to the grounding of the switchboard.
- 4. If the difference between the neutral and the ground is more than 5V or can't meet the system requirement, please reinstall good

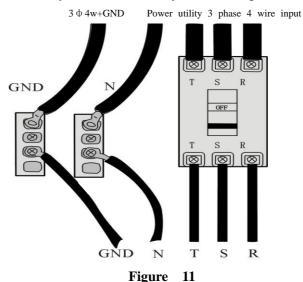
grounding system to maintain operating safety of system.

 The power cable and the impaction terminal must be quality goods, prohibit wrapping power cable on the terminal support directly.
 Please refer to Table 1

Capacity	Input wire	Output wire	DC wire
6KVA	6mm²	6mm²	10mm^2
8KVA	6mm²	6mm²	10mm^2
10KVA	6mm^2	6mm²	10mm^2
12KVA	8mm²	8mm²	$10 \mathrm{mm}^2$
15KVA	10mm^2	10mm^2	16mm^2
20KVA	16mm^2	16 mm 2	25mm^2
25KVA	$25 \mathrm{mm}^2$	$25\mathrm{mm}^2$	35mm^2
30KVA	$35 \mathrm{mm}^2$	$35\mathrm{mm}^2$	35mm^2

Table 1

- 6. Please follow the electrician principle when installation.
- 7. Avoid using same a switch with other equipment when connect to switchboard, try to connect to utility terminal.(Figure 11)



AC input connect wiring position

INPUT BATTERY OUTPUT BYPASS

N R S T + - L N L N GND

H H H H H H H H H H

GND

N R S T

GND

AC INPUT Figure 12

6.2 AC Output

- 1. Please consult input installation principle about output principle.
- 2. Output power cable is designed according to load current, do not use over-thin cable.
- 3. Avoid short-circuit and overload.
- 4. The grounding to the unit only acts as reference point, if the grounding isn't good, that may cause disturbance and false datum management and affect UPS and computer, please ask professional personnel for handling immediately.
- 5. User offers a good grounding system.
- 6. Try to make the grounding close to connection point of grounding club or start point in switchboard.
- 7. AC OUTPUT connect wiring position(Figure 13)

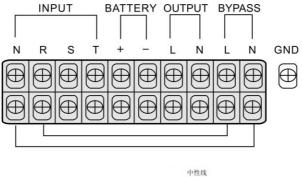




Figure 13

6.3 DC input wiring

- 1. DC input connection please refer to AC input installation rules.
- 2. Connection way and position, please refer to figure 14.

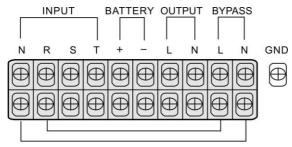




Figure 14 Battery wire

6.4 UPS2 wiring connection (details at 3.5 wiring figure)

If the UPS needed to be Master, remove the wires between INPUT and Bypass, then do the connection as below:

- 1. Connect INPUT with mains supply (three phases and four wires +GND)
- 2. Connect BATTERY and OUTPUT with normal wiring
- 3. Connect BYPASS to output of stand-by UPS

6.5 Wiring of UPS parallel connection (details at 3.6 wiring figure)

- 1. Connect INPUT with mains supply (three phases and four wires +GND), make sure the conformity of input phase of each UPS.
- 2. BATTERY is connected normally.
- 3. Connect all OUTPUTs of UPS , make sure the conformity of $L_{\, \times}$ N, and then integrated with the load.
- 4. Connect the parallel wires to the Parallel port of the UPS.

6.6 Connecting position and way

- 1. Remove the cover screw on wiring terminal support with Philip Head.
- 2. Remove the cover and find the wiring terminal plate below the power switch.
- 3. According to connecting guide, draw AC power input cable, output cable and battery pack power cable though the wiring outlet/inlet, then connect to relevant terminal.
- 4. After connection, please carefully confirm if the connection is correct and firm.
- 5. After connection is correction, please relock the cover.

7 OPERATION

7.1 Preparing process before start-up.

To make UPS normal and correct running, please confirm the following items.

- 1. Verify electric power switch on back panel is in the 'OFF" position.
- 2. Verify the installation place again.
- 3. Rock power cable with hand and see if there is any looseness, if looseness, retighten the seizure screw.
- 4. Do not connect load.
- 5. Inspect input voltage is to meet the demand of UPS (220V±10%) with ammeter.

7.2 Operation process at first start-up

After verify above items are correct, please start up UPS according to the following ways:

1. Please switch electric power switch NO FUSE BREAKER (NFB) on the back panel to the "ON" position. Input indicator light and bypass indicator light on the front panel are lit on at the same time. As follows figure 15.

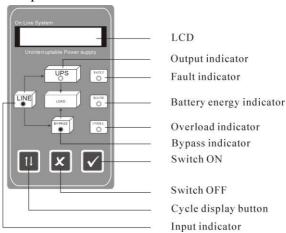
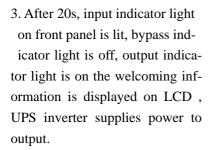


Figure 15

2. Plug the switch ON button on front panel. As follow drawing. The input indicator light and the bypass indicator light are on continuously. LCD display is lit. Utility supplies power to output via bypass.



4. Shutdown input power of UPS, utility indicator light is off, the welcoming information is displayed on LCD, UPS inverter supplies power to output., as follow drawing. UPS sounds every four seconds, which indicates battery pack supplies power to UPS at present. The sound will automatically stop 90slater.

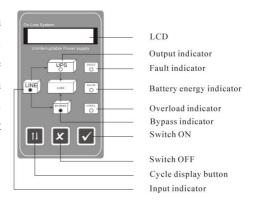


Figure 16

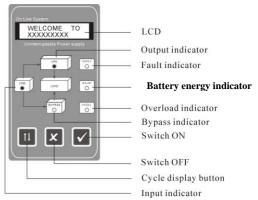


Figure 17

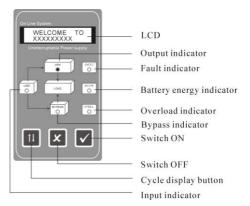


Figure 18

UPS will sound alarm every 1s again when battery power is to be exhausted.

- 5. Utility indicator light will be on when UPS input power source is resumed. Plug the LCD display cycle switch button to switch items displayed, see if display value is normal, thus first start-up procedure has been completed. Please measure output voltage and see if it meets the requirement, then connect load to UPS output terminal. Use pure power provided by UPS formally.
- 6. After connect load, plug LCD display cycle switch button to switch items displayed till display the item of output power display percent %. If the value displayed is more than 100%, please dismantle the unimportant load till the value displayed is less than 100%.

7.3 Daily switch ON/OFF operation procedure

If you want to switch on/off during daily using, please operate UPS according to the following ways:

- 1. If you want to switch off UPS, you can switch off UPS by plugging the "OFF' button located on front panel. At the time UPS is under bypass condition, utility supplies power to output and the batteries are under charging condition.
- 2. Always turn on UPS by plugging down the "OFF' button when daily operation.

7.4 Switch ON/OFF operation procedure when UPS hasn't been will be not used for long-time.

- 1. If the time in during UPS will be not used exceeds ten days, please first turn off UPS by pushing the "off" button on front panel, then position the NFB on back panel the position of "OFF".
- 2. If the time that UPS doesn't be used exceeds three months, please run UPS for above 24 hours according to the process of first start-up and make the battery on the full electrical position and extend battery life.

7.5 Maintenance Bypass Switch

The maintenance bypass switch should be operated by professionals. It can be used when the UPS needs to be repaired with the continuous power. When the emergency occurs, users can operate under the guidance of professionals as below:

- 1. Close the MAINTAN BYPASS SW, the inverter LED on the panel goes out and the bypass LED is on, the load is powered directly by bypass
- 2. Switch off the BYPASS, AC INPUT, BATTERY, OUTPUT to cut off all the internal power of UPS, the bypass still provides the power for load.
 - 3. Notify our customer service for home repair.

Note: The maintenance bypass switch should not be closed until other UPS transfer to bypass mode when one unit fails in parallel system.

8 STATUS HANDLING

8.1. Symbol indicator:















Note: If indicator light flash, the flash period is synchronal with that of buzzer sounds

8.2 UPS run status indicator and handling ways when normal

Please refer to indicator, LCD indicator value and buzzer sound on the panel, you can see if UPS running is normal, if UPS is abnormal, please refer to the

handling thing according to panel indicator status.

- Panel indicator status is as the right:
 - (1) UPS running status:

Utility is normal, UPS runs normally and UPS is used under full-load.

- (2) Handling way: needless handling.
- 2. panel indicator status is right:
- (1)UPS running status: Utility is normal, UPS runs normally and battery capacitor is above 90%.
- (2) Handling way: needless handling.

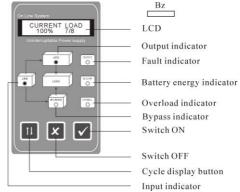


Figure 19

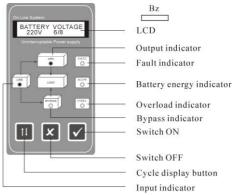


Figure 20

- panel indicator status is right:
 UPS running status:
 Utility supplies power 220Vac normally and UPS runs normally.
- (2) Handling way:

needless handling.

- panel indicator status is right:
 UPS running status:
 Utility supplies power normally,
 UPS runs normally and battery voltage is low.
- (2)Handling way: needless handling. The charger is fault, please replace charging board.

Note: the indicated material parameters vary with the machine type.

- 5. panel indicator status is right: (1)UPS running status
 Utility power is normal and it is transferred to utility mode. UPS don't start up until the startup button on the panel of UPS is pressed.
- (2)Handling way: please deal with it reference to status dealing flow chart 2.

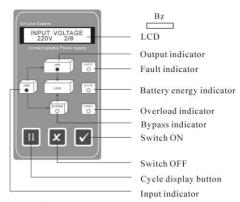


Figure 21

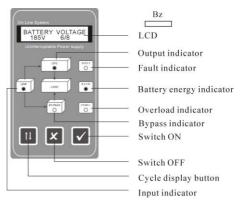


Figure 22

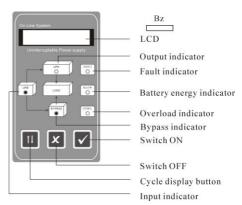


Figure 23

6. Panel indicator status is right:

(1)UPS running status:

Utility supplies power. Under overload 125%, overload indicator light is solid on and the buzzer beeps continuously.

(2) Handing way:

Please release load to ensure the indicated percent of LCD output power is less than 100%. If the thing is still present after removing load, please refer to flow chart 3 of status handling.

- 7. Panel indicator status is right:
- (1)UPS running status:

Utility power is normal, UPS runs abnormally and transfers to be supplied power by utility.

(2) Handling way:

Please refer to flow chart 4 of status handling.

- 8. Panel indicator status is right:
- (1)UPS running status:

Utility power is disconnected, UPS is supplied power by battery and load is full load. Buzzer beeps once every fo- ur seconds.

The battery energy indicator light fla- shes every four seconds (buzzer

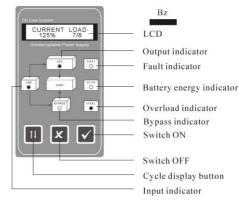


Figure 24

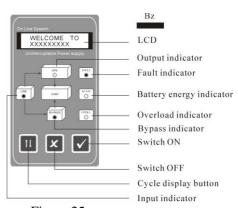


Figure 25

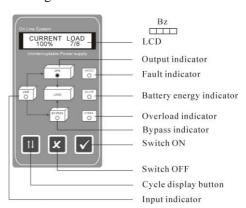


Figure 26

and indicator light stop beep and flash.

(2) Handling way:

If utility is disconnected normally, please remove non-critical loads to increase used time. If it is disconnected abnormally, please refer to flow chart 1 of status handling.

9. panel indicator status is right:(1)UPS running status:

Utility power is disconnected and UPS is supplied power by battery. Buzzer beeps once every one second when the battery power will be exhausted.

(2) Handling way:

UPS will shutdown at once, please save files as you could.

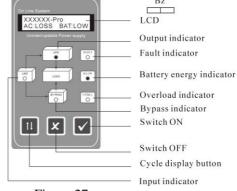


Figure 27

10. Panel indicator status is right:

(1)UPS running status:

Utility power may have been disconnected and battery power has been exhausted, UPS shutdown automatically.

(2) Handling way:

Waiting for utility power connecting and then UPS will automatically startup.

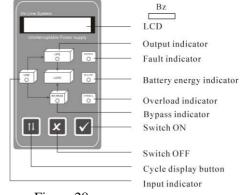
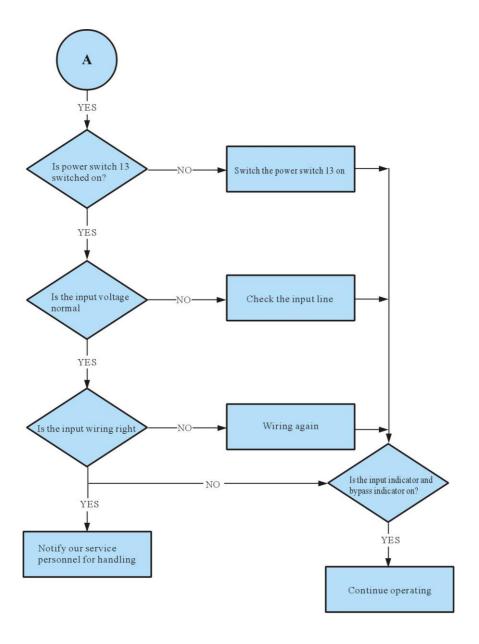


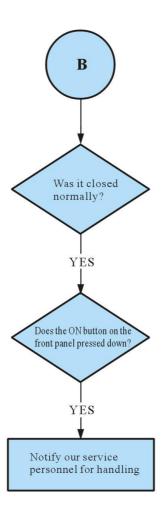
Figure 28

If utility power is disconnected for long period of time, please turn off UPS according to switch on/off program for power cut of long period of time

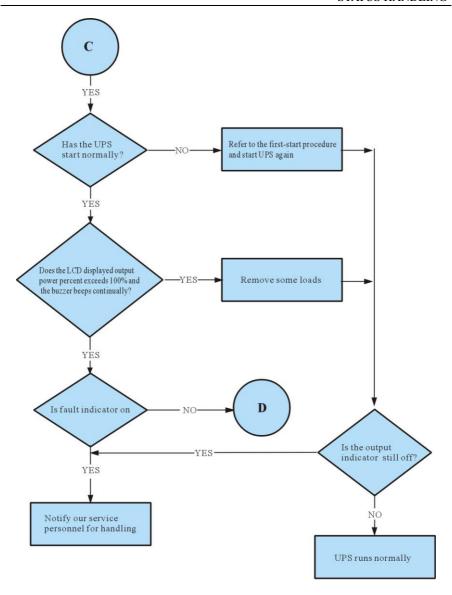
8.3 status handing



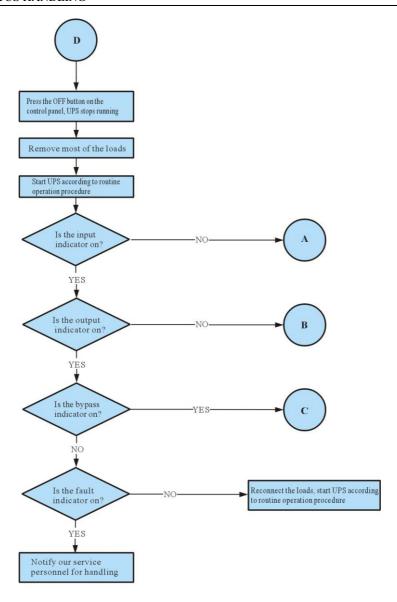
Flow chart 1 of status handing



Flow chart 2 of status handing



Flow chart 3 of status handing



Flow chart 4 of status handing

9 Monitoring software

9.1. Summarize

UPS can offer the function of communication and command with computer.

To avoid data loss or damage, computer needs some time to close system in an orderly way. When external power is disconnected, the computer system protected by UPS finally still is closed lawless because of losing power when battery has been exhausted. Through monitoring software, UPS can communicate with computer system so as to inform computer system to close computer systematically when UPS battery will be exhausted.

9.2 Software

When the server is unguarded, the power thing record and the function of informing turn off, control and auto startup can be achieved through UPS intelligent monitoring software. The software is suit to most operation system, a signal cable with software. The detail refers to *UPS intelligent monitoring software user manual*.

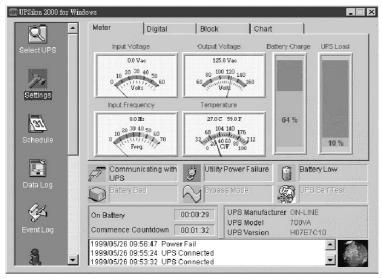


Figure 33

9.3 port component

To computer system with built-in UPS monitoring software, the port component can connect UPS into your system. Each component includes relevant port cable that convert UPS status signal into identifiable signal to system. (only using UPS monitoring cable supplied by factory)

PIN2: RS232 RXD PIN3: RS232 TXD

PIN5: GND

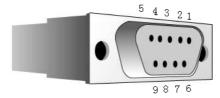


Figure 34

9.4 DRY CONTACTS BOARD (OPTIONAL)

Common	Fa	ult	AC	fail	Byr	oass	Low BAT		Common
1	2	3	4	5	6	7	8	9	10

The Dry Contacts board has a 10 pin connector on the rearside of the UPS.(OPTIONAL)

1.Common

Pin 1 and Pin10 are common pins.

2.Fault

Pin 2 is the normal-open output:when UPS works normally, Pin 2 and Pin 1-10 will be open, when ups is failed, Pin 3 and Pin 1-10 will be closed.

Pin 3 is normal-closed output:when UPS works normally,Pin 3 and Pin 1-10 will be closed,when is failed,Pin 4 and Pin 1-10 will be open.

3.AC fail

Pin 4 is the normal-open output:when UPS works normally, Pin 4 and Pin 1-10 will be open,when UPS works in AC failure mode, Pin 4 and Pin 1-10 will be closed.

Pin 5 is normal-closed output:when UPS works normally,Pin5 and Pin 1-10 will be closed,when UPS works in ACfailure mode,Pin 5 and Pin 1-10 will be open.

4.Bypass

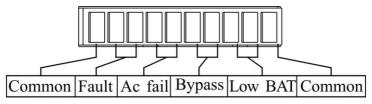
Pin 6 is the normal-closed output:when UPS works normally,Pin 6 and Pin 1-10 will be open,when UPS works in bypass mode,Pin 6 and Pin 1-10 will be closed.

Pin 7 is normal-open output:when UPS works normally,Pin 7 and Pin 1-10 will be closed,when UPS works inbypass mode,Pin 7 and Pin 1-10 will be open.

5.Low Bat

Pin 8 is the normal-open output: when UPS works normally, Pin 8 and Pin 1-10 will be closed.

Pin 9 is normal-closed output:when UPS works normally,Pin 9 and Pin 1-10 will be closed,when UPS works in Low Battery mode,Pin 9 and Pin 1-10 will be open.



10 Technical specification

Capacity	8KVA	10KVA	15KVA	20KVA	30KVA	40KVA	
AC input							
Voltage 380VAC±20%							
Frequency 50 (60)Hz±5%							
Phase		Tł	ree phases	+ Groundi	ng		
Max.current	18A	23A	34A	45A	68A	90A	
		AC	output				
Voltage			220	0 V			
Frequency			50 (6	0)Hz			
Voltage			<u>±1</u>	%			
frequency		<u>±0</u>	5% (When	disconnect	ion)		
Wave form			SPWM s	ine wave			
Power factor			0.8	Later			
distortion	<3% (linear load)						
INV efficiency		> 90%					
parallel	llel ≤5%						
current sharing	current sharing						
			attery		T		
Voltage 192VDC 240VDC					,		
Model Lead –acid free maintenance							
Charging time 90% capacity after 8-10 hours							
	Alarm						
Utility	Utility Buzzer beeps once every four seconds						
Battery	Battery Buzzer beeps once every one second						
Overload	Overload indicator light is solid on, buzzer continuously						
Overload	beeps for long-time.						
UPS abnormal Fault indicator light is solid on, buzzer continuously beeps for long-time.					ly beeps		

Capacity	8KVA	10KVA	15KVA	20KVA	30KVA	40KVA	
Internal protection equipment and LCD panel							
UPS automatically shutdowns when battery is						v power	
Battery		level, there is no fuse switch protection.					
Overload	When load reaches 110~150% of rating, transfer to bypass						
Overload		after	30s, recov	er auto af	ter unload.		
Over-temperature	A	Automatica	•	• •	s if UPS inter	rnal	
over temperature			tempera	ture > 8	5℃		
Output	Limit	current, a	utomatic s	hutdown, i	fuse and there	no fuse	
short-circuit			switch	protection	n.		
UPS abnormal	Automa	tically tran	nsfer to by	pass and s	upplied powe	r by utility	
Noise filter	10	0~100KHz	z at 40Db;	100KHz~	100MHz at 7	0dB	
LCD display	input, output voltage, frequency, battery voltage, output power						
Leb display	(%), temperature						
Battery BVL		One LED	e LED, it lit on when battery low voltage				
		Env	vironment				
Temperature	Temperature 0~40°C						
Humidity			0~95%, r	on-conder	nsing		
Noise <58dB (1m)							
	1	(General				
Output socket Terminal plate					1		
Unit weight	115Kg	125Kg	200Kg	235Kg	336Kg	380Kg	
Dimension (mm)	310*590		409*798		555*741	600*800	
,	*870mm		*1044mm				
others							
Transform time	e Oms						
UPS status	Utility, inverter, bypass, UPS abnormal (fault)						
indicator							
Communication	RS232 interface of DB9 model						
interface							

11 Shipping list

code	Content	Number
1	UPS	1
2	«UPS use manual»	1
3	Intelligent monitoring software	1
4	Computer port cable RS232	1
5	parallel wires	1