



## ULTIMA SERIES 5K-6KVA On-Line UPS

# USER MANUAL

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6. Specifications					
MODEL		ULT-5K(L)	5KISO	ULT-6K(L)	
CAPACITY		5000VA/4000W		6000VA/4200W	
<b>INPUT</b>					
Voltage Range	Low Line Transfer	175 VAC / 150 VAC / 130 VAC / 110 VAC ± 5 % ( based on load percentage 100%-80% / 80% - 70% / 70%- 60% / 60% - 0)			
	Low Line Comeback	183 VAC / 158 VAC / 138 VAC / 118 VAC ± 5 % ( based on load percentage 100%-80% / 80% - 70% / 70%- 60% / 60% - 0)			
	Low Line Comeback (Auto Restart)	183VAC ± 5 % (80%~100% Load) 158VAC ± 5 % ( 0% ~ 80% Load)			
	High Line Transfer	280 VAC ± 5 %			
	High Line Comeback	270 VAC ± 5 %			
Frequency Range		40Hz ~ 70 Hz			
Phase		Single phase with ground			
Power Factor		≥ 0.95			
<b>OUTPUT</b>					
Output voltage		208/220/230/240VAC			
AC Voltage Regulation (Batt. Mode)		± 3%			
Frequency Range (Synchronized Range)		47-53 Hz or 57 ~ 63 Hz			
Frequency Range (Batt. Mode)		50 Hz ± 0.25 Hz or 60Hz ± 0.3 Hz			
Overload		100%-110%: 10 Minutes, sounding every 0.5 seconds 110%-130%: 30 Seconds, sounding every 0.5 seconds > 130% : 1.5 Seconds, sounding every 0.5 seconds			
Current Crest Ratio		3:1			
Harmonic Distortion		≤ 3 % THD (Linear Load) ≤ 6 % THD (Non-linear Load)			
Transfer Time	AC Mode to Batt. Mode	Zero			
	Inverter to Bypass	4 ms (Typical)			
Waveform (Batt. Mode)		Pure Sinewave			
<b>PEAK EFFICIENCY</b>					
AC Mode		90%	85%	90%	
Battery Mode		89%	83%	85%	
<b>BATTERY</b>					
Standard Model	Battery Type Numbers	12V/10AH 8			
	Recharge Time (Typical)	8 hours recover to 90% capacity			
	Charging Current	1A			
	Boost Voltage	113.3V ± 1%			
Long Runtime Model	Floating Voltage	109.4 ± 1%			
	Battery Type & Numbers	Depending on the capacity of external batteries			
	Charging Current	4A/8A, 10A (option)			
	Boost Voltage	113.3V ± 1%			
Long-run Model	Floating Voltage	109.4 ± 1%			
	<b>PHYSICAL</b>				
Standard Model	Dimension (DxWxH)(mm)	426 x 190 x 318	426 x 190 x 448	426 x 190 x 318	
	Net Weight (kgs)	35.3	62.5	35.3	
Long-run Model	Dimension (DxWxH)(mm)	426 x 190 x 318	426 x 190 x 448	426 x 190 x 318	
	Net Weight (kgs)	14.3	41.5	14.3	
<b>ENVIRONMENT</b>					
Operation Humidity		0-95 % RH @ 0- 40°C (non-condensing)			
Noise Level		Less than 55dBA @ 1 Meter			
<b>MANAGEMENT</b>					
RS-232 or USB (Optional)		Supports Windows 2000/2003/XP/Vista/2008/XP/7, Linux, Unix, and MAC			
SNMP (Optional)		Power management from SNMP manager and web browser			

\* Derate capacity to 60% of capacity in Frequency converter mode and to 80% when the output voltage is adjusted to 208VAC (104VAC).

## 5. Storage and Maintenance

### Operation

The UPS system contains no user-serviceable parts. If the battery service life (3–5 years at 25°C ambient temperature) has been exceeded, the batteries must be replaced. In this case, please contact your dealer.



Be sure to deliver the spent battery to a recycling facility or ship it to your dealer in the replacement battery packing material.

### Storage

Before storing, charge the UPS for minimum 5 hours. Store the UPS covered and upright in a cool, dry location. During storage, recharge the battery in accordance with the following table:

Storage Temperature	Recharge Frequency	Charging Duration
-25°C - 40°C	Every 3 months	1-2 hours
40°C - 45°C	Every 2 months	1-2 hours

## 1. Important Safety Warning

Please comply with all warnings and operating instructions in this manual strictly. Save this manual properly and read carefully the following instructions before installing the unit. Do not operate this unit before reading through all safety information and operating instructions carefully.

### 1-1. Transportation

- l Please transport the UPS system only in the original packaging to protect against shock and impact.

### 1-2. Preparation

- l Condensation may occur if the UPS system is moved directly from cold to warm environment. The UPS system must be absolutely dry before being installed. Please allow at least two hours for the UPS system to acclimate to the environment.
- l Do not install the UPS system near water or in moist environments.
- l Do not install the UPS system where it would be exposed to direct sunlight or near a heater.
- l Do not block ventilation holes in the UPS housing.

### 1-3. Installation

- l Do not connect appliances or devices which would overload the UPS system (e.g. laser printers) to the UPS output sockets.
- l Place cables in such a way that no one can step on or trip over them.
- l Do not connect domestic appliances such as hair dryers to UPS output sockets.
- l The UPS can be operated by any individuals with no previous experience.
- l Connect the UPS system only to an earthed shockproof outlet which must be easily accessible and close to the UPS system.
- l Please use only VDE-tested, CE-marked mains cable (e.g. the mains cable of your computer) to connect the UPS system to the building wiring outlet (shockproof outlet).
- l Please use only VDE-tested, CE-marked power cables to connect the loads to the UPS system.
- l When installing the equipment, make sure the sum of the leakage current of the UPS and the connected devices does not exceed 3.5mA.

### 1-4. Operation

- l Do not disconnect the mains cable on the UPS system or the building wiring outlet (shockproof socket outlet) during operations since this would cancel the protective earthing of the UPS system and of all connected loads.
- l The UPS system features its own internal current source (batteries). The UPS output sockets and output terminals block may be electrically live even if the UPS system is not connected to the building wiring outlet.
- l In order to fully disconnect the UPS system, first press the OFF/Enter button to disconnect the mains.
- l Prevent no fluids or other foreign objects from inside of the UPS system.











**1-5. Maintenance, Service, and Faults**

- I The UPS system operates with hazardous voltages. Repairs may be carried out only by qualified maintenance personnel.
- I **Caution** - risk of electric shock. Even after the unit is disconnected from the mains (building wiring outlet), components inside the UPS system are still connected to the battery and electrically live and dangerous.
- I Before carrying out any kind of service and/or maintenance, disconnect the batteries and verify that no current is present and no hazardous voltage exists in the terminals of high capability capacitor such as BUS-capacitors.
- I Only persons adequately familiar with batteries and with the required precautionary measures may replace batteries and supervise operations. Unauthorized persons must be kept well away from the batteries.
- I **Caution** - Risk of electric shock. The battery circuit is not isolated from the input voltage. Hazardous voltages may occur between the battery terminals and the ground. Before touching, please verify that no voltage is present!
- I Batteries may cause electric shock and have a high short-circuit current. Please take the precautionary measures specified below and any other measures necessary when working with batteries:
  - Remove wristwatches, rings and any other metal objects
  - Use only tools with insulated grips and handles.
- I When changing batteries, install the same number and same type of batteries.
- I Do not attempt to dispose of batteries by burning them. This could cause battery explosion.
- I Do not open or destroy batteries. Escaping electrolyte can cause serious injury to the skin and eyes and may be toxic.
- I Please replace the fuse only with the same type and amperage in order to avoid fire hazards.
- I Do not dismantle the UPS system.

Symptom	Possible Cause	Remedy
Fault code is shown as 1, 2, 3, 4, 11, 12, 13 and 41 on LCD display and alarm is continuously sounding.	A UPS internal fault has occurred. There are two possible causes: 1. The load is still supplied, but directly from AC power via bypass. 2. The load is no longer supplied by power.	Contact your dealer.
Battery backup time is shorter than nominal value	Batteries are not fully charged	Charge the batteries for at least 5 hours and then check capacity. If the problem still persists, consult your dealer.
	Batteries defect	Contact your dealer to replace the battery.

## 4. Troubleshooting

If the UPS system does not operate correctly, please solve the problem by using the table below.

Symptom	Possible Cause	Remedy
No indication and alarm even though the mains is normal.	The AC input power is not connected well.	Check if input power cord firmly connected to the mains.
	The AC input is connected to the UPS output.	Plug AC input power cord to AC input correctly.
The icon  and  flashing on LCD display and alarm is sounding every second.	Line and neutral conductors of UPS input are reversed.	Rotate mains power socket by 180° and then connect to UPS system.
The icon  and  flashing on LCD display and alarm is sounding every second.	The external or internal battery is incorrectly connected.	Check if all batteries are connected well.
Fault code is shown as 27 and the icon  is lighting on LCD display and alarm is continuously sounding.	Battery voltage is too high or the charger is fault.	Contact your dealer.
Fault code is shown as 28 and the icon  is lighting on LCD display and alarm is continuously sounding.	Battery voltage is too low or the charger is fault.	Contact your dealer.
The icon  and  flashing on LCD display and alarm is sounding twice every second.	UPS is overloaded.	Remove excess loads from UPS output.
	UPS is overloaded. Devices connected to the UPS are fed directly by the electrical network via the Bypass.	Remove excess loads from UPS output.
Fault code is shown as 43 and The icon  is lighting on LCD display and alarm is continuously sounding.	After repetitive overloads, the UPS is locked in the Bypass mode. Connected devices are fed directly by the mains.	Remove excess loads from UPS output first. Then shut down the UPS and restart it.
	The UPS shut down automatically because of overload at the UPS output.	Remove excess loads from UPS output and restart it.
Fault code is shown as 14 and the icon  is lighting on LCD display and alarm is continuously sounding.	The UPS shut down automatically because in short circuit occurs on the UPS output.	Check output wiring and if connected devices are in short circuit status.

## 2. Installation and setup

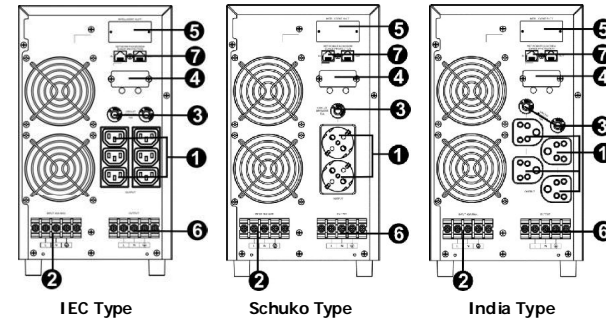
**NOTE:** Before installation, please inspect the unit. Be sure nothing inside the package is damaged. Please keep the original package in a safe place for future use.

**NOTE:** There are two different types of online UPS: standard and long runtime models ("L" models).

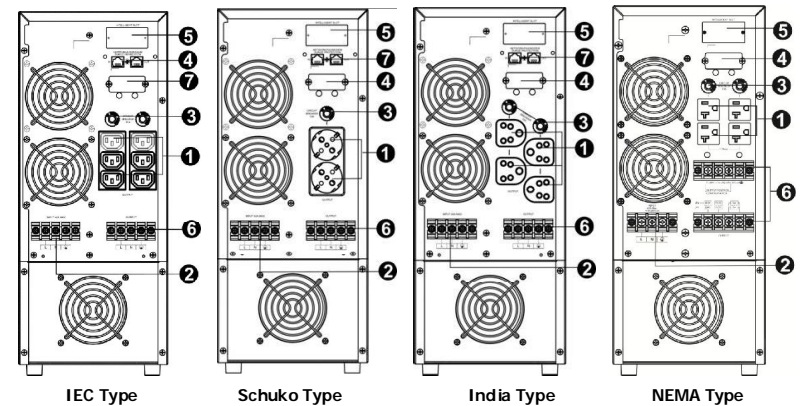
**NOTE:** When the UPS is equipped with isolation transformer, the model will simply be added "ISO".

### 2-1. Rear Panel View

#### ULT-5K(L)-6K(L)



#### ULT-5K (with isolation transformer)



1. Output receptacles
2. AC input
3. Circuit breaker for output receptacles
4. External battery connection (only available for "L" models)
5. Intelligent slot
6. Output terminal
7. Modem/phone line/network surge protection
8. Charger current selector

## 2-2. Setup the UPS

### Step 1: UPS Input Connection

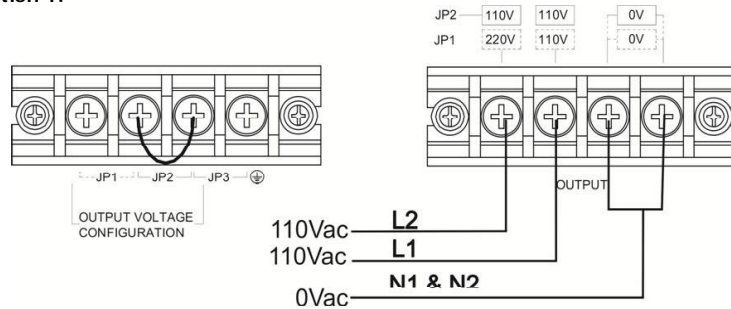
Plug the UPS into a two-pole, three-wire, and grounded receptacle only. Please do not use extension cords. The input plug is #12\*3C.

### Step 2: UPS Output Connection

Simply plug devices to output sockets. During power failure, UPS will provide power to connected devices.

For ULT-5K Rack/Tower model with NEMA output type, please follow below steps for output configuration.

#### Option 1:



After connecting JP2, it becomes 2 sets of low-voltage outputs (104/110/115/120VAC) on L1-N1 & L2-N2. Each set is able to provide 50% of UPS rating power. Connect one load to L1-N1 and the other load to L2-N2.

## 3-8. Warning Indicators

Warning	Icon (flashing)	Alarm
Low battery		Sounding every second
Overload		Sounding twice every second
Battery is not connected		Sounding every second
Overcharge		Sounding every second
Site wiring fault		Sounding every second
Over temperature		Sounding every second
Charger failure		Sounding every second
Out of bypass voltage range		Sounding every second

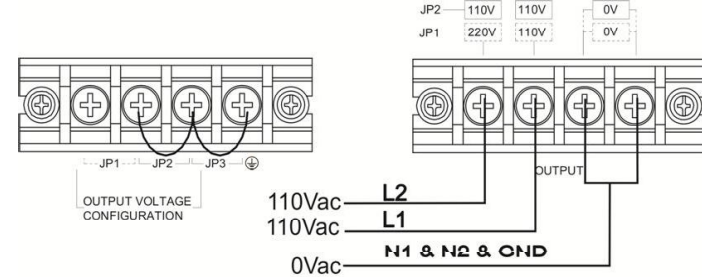
### 3-6. Operating Mode Description

Operating Mode	Description	LCD Display
Online mode	When the input voltage is within acceptable range, UPS will provide pure and stable AC power to output. The UPS will also charge the battery at online mode.	
ECO mode	Energy saving mode: When the input voltage is within voltage regulation range, UPS will bypass voltage to output for energy saving.	
Converter mode	When input frequency is within 40 Hz to 70 Hz, the UPS can be set at a constant output frequency, 50 Hz or 60 Hz. The UPS will still charge battery under this mode.	
Battery mode	When the input voltage is beyond the acceptable range or power failure and the alarm is sounding every 4 seconds; UPS will backup power from battery.	
Bypass mode	When input voltage is within acceptable range but UPS is overload, UPS will enter bypass mode or bypass mode can be set by front panel. Alarm will sound every 10 seconds.	
Standby mode	UPS is powered off and no output supply power, but can still charge batteries.	

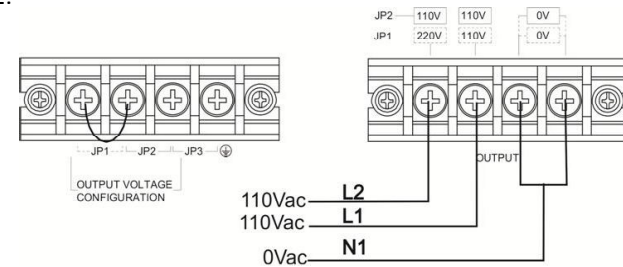
### 3-7. Faults Reference Code

Fault Event	Fault Code	Icon	Fault Event	Fault Code	Icon
Bus start fail	01	x	Inverter voltage Low	13	x
Bus over	02	x	Inverter output short	14	SHORT
Bus under	03	x	Battery voltage too high	27	BATT FAULT
Bus unbalance	04	x	Battery voltage too low	28	BATT FAULT
Inverter soft start fail	11	x	Over temperature	41	x
Inverter voltage high	12	x	Over load	43	OVER LOAD

NOTE: If it's necessary to short circuit on N1, N2, and GND, please connect JP3 as below:



Option 2:



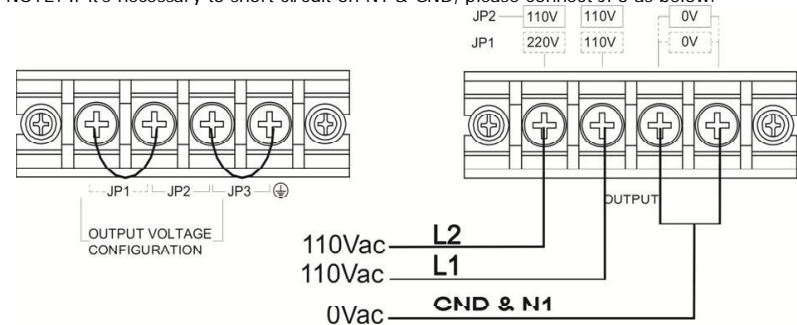
After connecting JP1, it becomes two outputs: one low-voltage output (104/110/115/120 VAC) at N1-L1 and another high-voltage output (208/220/230/240 VAC) at N1-L2. However, the current limitation is 25A maximum at N1-L1 and N1-L2. You must connect the load under the limitation. Connect low-voltage load to N1-L1 and connect high-voltage load to N1-L2. Please follow below current distortion formula when connecting to low-voltage and high-voltage loads at the same time.

$$I_{\text{high-voltage}} = 25A - I_{\text{low-voltage}}$$

$I_{\text{high-voltage}}$  : High voltage current

$I_{\text{low-voltage}}$  : Low voltage current

NOTE: If it's necessary to short circuit on N1 & GND, please connect JP3 as below.

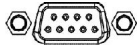


### Step 3: Communication Connection

#### Communication port:

**RS-232 port**

**Intelligent slot**



This model is equipped with intelligent slots for SNMP, RS-232, USB, or AS-400 card. When installing with these communication card in the UPS, it will provide advanced communication and monitoring options.



#### Step 1:

Remove cover of intelligent slot.



#### Step 2:

Insert communication card into the slot



#### Step 3:

Screw card tightly and complete installation.

### Step 4: Network Connection

#### Network/Fax/Phone surge port

IN OUT

Connect a single modem/phone/fax line into surge-protected IN outlet on the back panel of the UPS unit. Connect from OUT outlet to the equipment with another modem/fax/phone line cable.

### Step 5: Turn On the UPS

Press the ON/Mute button on the front panel for two seconds to power on the UPS.

Note: The battery charges fully during the first five hours of normal operation. Do not expect full battery run capability during this initial charge period.

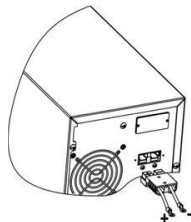
### Step 6: Install Software

For optimal computer system protection, install UPS monitoring software to fully configure UPS shutdown. You may insert provided CD into CD-ROM to install the monitoring software. If not, please follow steps below to download and install monitoring software from the internet:

1. Go to the website <http://www.power-software-download.com>
2. Click the ViewPower software icon and then choose your required OS to download the software.
3. Follow the on-screen instructions to install the software.
4. When your computer restarts, the monitoring software will appear as an orange plug icon located in the system tray near the clock.

### Step 7: External Battery Connection

Follow the below chart to make external battery connection.



To external battery

### 05: ECO Voltage Range Setting

Interface	Setting
	<p><b>Parameter 2 &amp; 3:</b> Set the acceptable high voltage point and low voltage point for ECO mode by pressing Down key or Up key.</p> <p><b>HLS:</b> High loss voltage in ECO mode in parameter 2. The setting range in parameter 3 is from +7V to +24V of the nominal voltage.</p> <p><b>LLS:</b> Low loss voltage in ECO mode in parameter 2. The setting range in parameter 3 is from -7V to -24V of the nominal voltage.</p>

### 06: Bypass Function Enable/Disable When UPS Is Off

Interface	Setting
	<p><b>Parameter 3:</b> Enable or disable Bypass function. You may choose the following two options:</p> <p><b>ENA:</b> Bypass enable</p> <p><b>DIS:</b> Bypass disable</p>

### 07: Bypass Voltage Range Setting

Interface	Setting
	<p><b>Parameter 2 &amp; 3:</b> Set the acceptable high voltage point and acceptable low voltage point for Bypass mode by pressing the Down key or Up key.</p> <p><b>HLS:</b> Bypass high voltage point: <b>230-264:</b> setting the high voltage point in parameter 3 from 230Vac to 264Vac.</p> <p><b>LLS:</b> Bypass low voltage point: <b>187-220:</b> setting the low voltage point in parameter 3 from 187Vac to 220Vac</p>


### 08: Input Voltage Range Setting

Interface	Setting
	<p><b>Parameter 2 &amp; 3:</b> Set the acceptable input voltage range for AC mode by pressing the Down key or Up key.</p> <p><b>HLS:</b> Acceptable maximum input voltage point: <b>280/270/260:</b> selecting 280Vac, 270Vac, or 260Vac as the maximum input voltage point in parameter 3.</p> <p><b>LLS:</b> Acceptable minimum input voltage point: <b>175/185/195:</b> selecting 175Vac, 185Vac, or 195Vac as the minimum input voltage point in parameter 3.</p>


### 00: Exit Setting




### 01: Output Voltage Setting

Interface	Setting
	<p><b>Parameter 3: Output voltage</b> For 208/220/230/240 VAC models, you may choose the following output voltage:</p> <p><b>208:</b> present output voltage is 208Vac  <b>220:</b> present output voltage is 220Vac  <b>230:</b> present output voltage is 230Vac  <b>240:</b> present output voltage is 240Vac</p> <p>For 104/110/115/120 VAC models, you may choose the following output voltage:</p> <p><b>104:</b> present output voltage is 104Vac  <b>110:</b> present output voltage is 110Vac  <b>115:</b> present output voltage is 115Vac  <b>120:</b> present output voltage is 120Vac</p>


### 02: Converter Mode Enable/Disable

Interface	Setting
	<p><b>Parameter 2 &amp; 3:</b> Enable or disable converter mode. You may choose the following two options:</p> <p><b>CF ENA:</b> converter mode is enabled  <b>CF DIS:</b> converter mode is disabled</p>

### 03: Output Frequency Setting

Interface	Setting
	<p><b>Parameter 2 &amp; 3: Output frequency setting</b> You may set the initial frequency in battery mode:</p> <p><b>BAT 50:</b> output frequency is set at 50Hz  <b>BAT 60:</b> output frequency is set at 60Hz</p> <p>If converter mode is enabled, you may choose the following output frequency:</p> <p><b>CF 50:</b> output frequency is set at 50Hz  <b>CF 60:</b> output frequency is set at 60Hz</p>

### 04: ECO Mode Enable/Disable

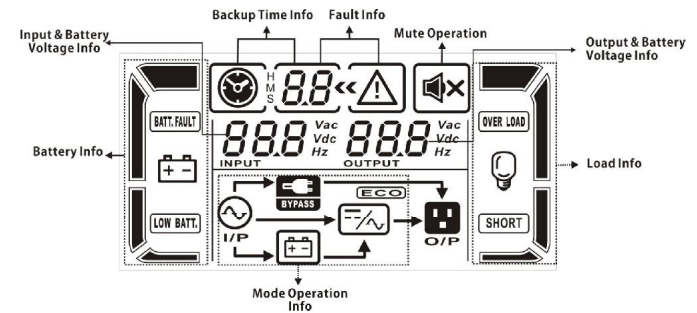
Interface	Setting
	<p><b>Parameter 3:</b> Enable or disable ECO function. You may choose the following two options:</p> <p><b>ENA:</b> ECO mode is enabled  <b>DIS:</b> ECO mode is disabled</p>

## 3. Operations

### 3-1. Buttons Operation

Button	Function
ON/Mute Button	<ul style="list-style-type: none"> <li>Turn on the UPS: Press and hold ON/Mute button for at least 2 seconds to turn on the UPS.</li> <li>Mute the alarm: After the UPS is turned on in battery mode, press and hold this button for at least 5 seconds to disable or enable the alarm system. But it's not applied to the situations when warnings or errors occur.</li> <li>Up key: Press this button to display previous selection in UPS setting mode.</li> <li>Switch to UPS self-test mode: Press ON/Mute buttons simultaneously for 5 seconds to enter UPS self-testing while in AC mode.</li> </ul>
OFF/Enter Button	<ul style="list-style-type: none"> <li>Turn off the UPS: Press and hold this button at least 2 seconds to turn off the UPS in battery mode. UPS will be in standby mode under power normal or transfer to Bypass mode if the Bypass enable setting by pressing this button.</li> <li>Confirm selection key: Press this button to confirm selection in UPS setting mode.</li> </ul>
Select Button	<ul style="list-style-type: none"> <li>Switch LCD message: Press this button to change the LCD message for input voltage, input frequency, battery voltage, output voltage and output frequency. It will return back to default display when pausing for 10 seconds.</li> <li>Setting mode: Press and hold this button for 5 seconds to enter UPS setting mode when UPS is in standby mode or bypass mode.</li> <li>Down key: Press this button to display next selection in UPS setting mode.</li> </ul>
ON/Mute + Select Button	<ul style="list-style-type: none"> <li>Switch to bypass mode: When the main power is normal, press ON/Mute and Select buttons simultaneously for 5 seconds. Then UPS will enter to bypass mode. This action will be ineffective when the input voltage is out of acceptable range.</li> </ul>

### 3-2. LCD Panel



Display	Function
<b>Backup time information</b>	
	Indicates the remaining backup time in pie chart.
	Indicates the remaining backup time in numbers. H: hours, M: minute, S: second
<b>Fault information</b>	
	Indicates that the warning and fault occurs.
	Indicates the warning and fault codes (the codes are listed in details in 3-5 section).
<b>Mute operation</b>	
	Indicates that the UPS alarm is disabled.
<b>Output &amp; battery voltage information</b>	
	Indicates the output voltage, frequency, or battery voltage. Vac: output voltage, Vdc: battery voltage, Hz: frequency
<b>Load information</b>	
	Indicates the load level by 0-25%, 26-50%, 51-75%, and 76-100%.
	Indicates overload.
	Indicates the load or the UPS output is short circuit.
<b>Mode operation information</b>	
	Indicates the UPS connected to the mains.
	Indicates the battery is working.
	Indicates the bypass circuit is working.
	Indicates the ECO mode is enabled.
	Indicates the Inverter circuit is working.
	Indicates the output is working.
<b>Battery information</b>	
	Indicates the Battery level by 0-25%, 26-50%, 51-75%, and 76-100%.
	Indicates the battery is fault.
	Indicates low battery level and low battery voltage.
<b>Input &amp; battery voltage information</b>	
	Indicates the input voltage or frequency or battery voltage. Vac: Input voltage, Vdc: battery voltage, Hz: input frequency

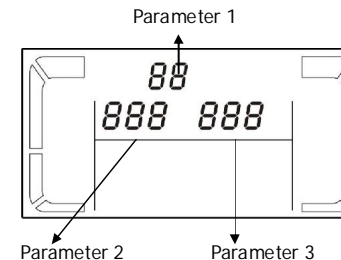
### 3-3. Audible Alarm

Battery Mode	Sounding every 4 seconds
Low Battery	Sounding every second
Overload	Sounding twice every second
Fault	Continuously sounding
Bypass Mode	Sounding every 10 seconds

### 3-4. LCD Display Wording Index

Abbreviation	Display Content	Meaning
ENA	<i>ENR</i>	Enabled
DIS	<i>d15</i>	Disabled
ESC	<i>ESC</i>	Escape
HLS	<i>HLS</i>	High loss
LLS	<i>LLS</i>	Low loss
BAT	<i>bAt</i>	Battery
TP	<i>tP</i>	Temperature
CH	<i>CH</i>	Charger

### 3-5. UPS Setting



There are three parameters to set up the UPS.

Parameter 1: For program alternatives. There are 6 programs to set up. Refer to below table. Parameter 2 and parameter 3 are the setting options or values for each program.