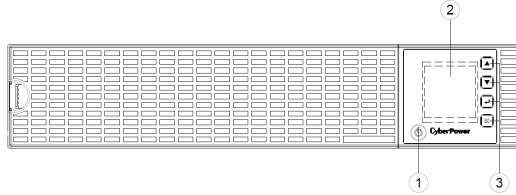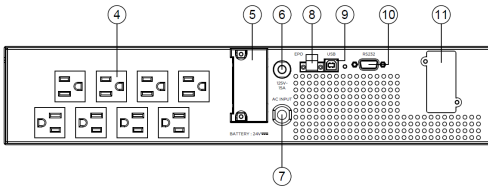# CyberPower®

YOUR ULTIMATE ALLY IN POWER

SMART APP ONLINE UPS SYSTEM
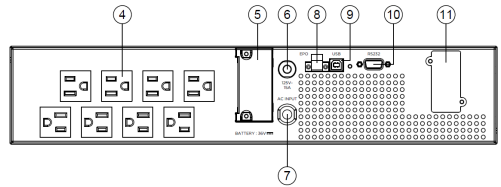
OL750RM / OL1KRM / OL1K5RM / OL2K2RM / OL3KRM
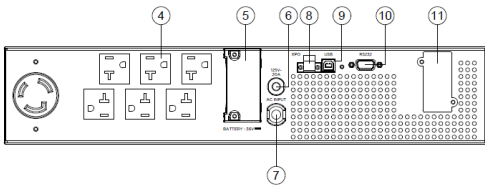
INSTALLATION AND OPERATION MANUAL

OL750RM/OL1KRM

OL1K5RM

OL2K2RM

OL3KRM
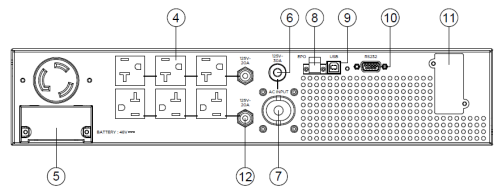
FEATURES

1. Power Button / Power on Indicator
2. UPS Status / Multifunction LCD Readout
3. Function Buttons
4. Outlets for Battery Backup and Surge Protected
5. Extended Runtime Battery Module Connector
6. Input Circuit Breaker
7. AC Input power cord
8. EPO (Emergency Power Off) Connector
9. USB (HID Compliant) port
10. Serial port
11. Expansion Slot
12. Output Circuit Breaker

Cyber Power Systems (USA), Inc.

TABLE OF CONTENTS

SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

This manual contains important instructions that should be followed during installation and maintenance of the UPS and batteries.

The Smart App Online 750VA-3KVA UPS models that are covered in this manual are intended for installation in an environment within 32°F to 104°F (0°C to 40°C), free of conductive contaminants.

SPECIAL SYMBOLS

⚡	**Warning: High voltage** Risk of Electric Shock
⚠	**Caution - Important Instructions** Must always be followed.
🗑	**Do Not Discard the UPS or UPS batteries in trash.** The batteries contain lead acid. For more information, contact your local recycling or hazardous waste facility.
ℹ	Information, advice, help
📖	See applicable user manual

PERSONAL SAFETY

⚠ **CAUTION!** To reduce the risk of fire, the unit connects only to a circuit provided with 15 amperes (OL750RM, OL1KRM, OL1K5RM); 20 amperes (OL2K2RM); 30 amperes (OL3KRM) maximum branch circuit overcurrent protection in accordance with the National Electric Code, ANSI/NFPA 70.

⚠ **CAUTION!** The AC electrical service where the UPS is connected should be close to the unit and easily accessible.

⚠ **CAUTION!** Please use only UL-marked mains cable, (e.g. the mains cable of your equipment), to connect the UPS to the AC outlet.

⚠ **CAUTION!** Please use only UL-marked power cables to connect any equipment to the UPS.

⚠ **CAUTION!** When installing the equipment, ensure that the sum of the leakage current of the UPS and the connected equipment does not exceed 3.5mA.

⚠ **CAUTION!** Do not unplug the unit from AC power during operation, as this will disconnect the protective ground insulation.

⚠ **CAUTION!** Do not use an improper size power cord as it may cause damage to your equipment and cause fire hazards.

⚠ **CAUTION!** Make sure everything is turned off and disconnected completely before conducting any maintenance, repairs or shipment.

SAFETY INSTRUCTIONS

⚠ **CAUTION!** DO NOT INSTALL THE UPS WHERE IT WOULD BE EXPOSED TO DIRECT SUNLIGHT OR NEAR A STRONG HEAT SOURCE!

⚠ **CAUTION!** DO NOT BLOCK OFF VENTILATION OPENINGS AROUND THE HOUSING!

⚠ **CAUTION!** DO NOT CONNECT DOMESTIC APPLIANCES SUCH AS HAIR DRYERS TO UPS OUTPUT SOCKETS!

⚠ **CAUTION!** SERVICING OF BATTERIES SHOULD BE PERFORMED OR SUPERVISED BY PERSONNEL KNOWLEDGEABLE OF BATTERIES AND THE REQUIRED PRECAUTIONS. KEEP UNAUTHORIZED PERSONNEL AWAY FROM BATTERIES!

⚠ **CAUTION!** FOR PERMANENTLY CONNECTED EQUIPMENT, A READILY ACCESSIBLE DISCONNECT DEVICE SHALL BE INCORPORATED IN THE BUILDING INSTALLATION WIRING.

⚠ **WARNING!**	**WARNING! RISK OF ELECTRIC SHOCK**

RISK OF ELECTRIC SHOCK

A battery can present a risk of electric shock and high short circuit current. The following precaution should be observed when working on batteries:

a) Remove watches, rings or other metal objects.

b) Use tools with insulated handles.

c) Wear rubber gloves and boots.

d) Do not lay tools or metal parts on top of batteries.

e) Disconnect charging source prior to connecting or disconnecting battery terminals.

f) Remove battery grounds during installation and maintenance to reduce likelihood of shock. Remove the connection from ground if any part of the battery is determined to be grounded.

The UPS must be connected to a grounded AC power outlet with fuse or circuit breaker protection. DO NOT plug the UPS into an outlet that is not grounded. If you need to power-drain this equipment, turn off and unplug the unit.

No User-Serviceable Parts: Risk of electric shock, do not remove cover. No user-serviceable parts inside. Refer servicing to qualified service personnel.

To prevent the risk of fire or electric shock, install in a temperature and humidity controlled indoor area, free of conductive contaminants. (Please see specifications for acceptable temperature and humidity range).

To avoid electric shock, turn off and unplug the unit before installing the input/output power cord with a ground wire. Connect the ground wire prior to connecting the line wires!

Connect the Protection Earth (PE) safety conductor before any other cables are connected.

Fuses: To reduce the risk of fire, replace only with the same type and rating of fuse.

SAFETY INSTRUCTIONS

⚠ **WARNING!** The battery can power hazardous components inside the unit, even when the AC input power is disconnected. The UPS should be placed near the connected equipment and easily accessible.

Non-Isolated Battery Supply: Risk of electric shock, battery circuit is not isolated from AC power source; hazardous voltage may exist between battery terminals and ground. Test before touching.

⚠ **WARNING! DO NOT USE FOR MEDICAL OR LIFE SUPPORT EQUIPMENT!** Under no circumstances should this unit be used for medical applications involving life support equipment and/or patient care.

⚠ **WARNING! DO NOT USE WITH OR NEAR AQUARIUMS!** To reduce the risk of fire, do not use with or near aquariums. Condensation from the aquarium can come in contact with metal electrical contacts and cause equipment to short out.

The unit has a dangerous amount of voltage. When the UPS indicators is on, the units may continue to supply power thus the unit's outlets may have a dangerous amount of voltage even when it is not plugged in to the wall outlet.

BATTERY PRECAUTIONS

DO NOT DISCARD IN HOUSEHOLD TRASH

⚠ **CAUTION!** Do not dispose of batteries in fire as the battery may explode.

⚠ **CAUTION!** Do not open or mutilate the battery, released material is harmful to the skin and eyes. It may be toxic.

⚠ **CAUTION!** RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

⚠ **CAUTION!** When replacing batteries, replace with the same number of the following battery: CyberPower RB1270X2G for OL750RM / OL1KRM, CyberPower RB1270X3B for OL1K5RM / OL2K2RM and CyberPower RB1270X4K for OL3KRM.

⚠ **CAUTION!** Risk of Energy Hazard, 24V (OL750RM / OL1KRM), 36V (OL1K5RM / OL2K2RM) and 48V (OL3KRM), maximum 9.4 Ampere-hour battery. Before replacing batteries, remove conductive jewelry such as chains, wrist watches, and rings. High energy through conductive materials could cause severe burns.

INTRODUCTION

UPS

CyberPower Smart App Online rackmount UPS systems, with double-conversion topology, provide sine wave output to mission-critical applications and equipment requiring seamless power correction. These units offer generator compatibility and deliver clean AC power with zero transfer time.

They offer Smart Battery Management (SBM), which helps extend overall battery life, and Fast Charge Technology, which helps keep charge times to less than four hours, regardless of the number of Extended Battery Modules (EBMs). Features include energy-saving GreenPower UPS™ ECO Mode technology, and PowerPanel Business software for monitoring and managing the UPS. Smart App Online 750VA-3kVA UPS systems come with a three-year warranty and a $400,000 Connected Equipment Guarantee.

EXTENDED BATTERY MODULES

Extended Battery Modules (EBMs) from CyberPower (BP24VL2U02 / BP36VL2U02 / BP48VL2U02) increase battery runtimes during power outages. Each rackmount EBM uses 2U of rack space, depending upon the model. The DC plug-and- play power connectors allow to daisy-chain additional EBMs to a UPS system. EBMs compatible with Smart App Online UPS systems also have a built-in battery charger, providing Fast Charge Technology to quickly restore the backup power supply. Every CyberPower EBM has a three-year warranty.

PACKAGE CONTENTS
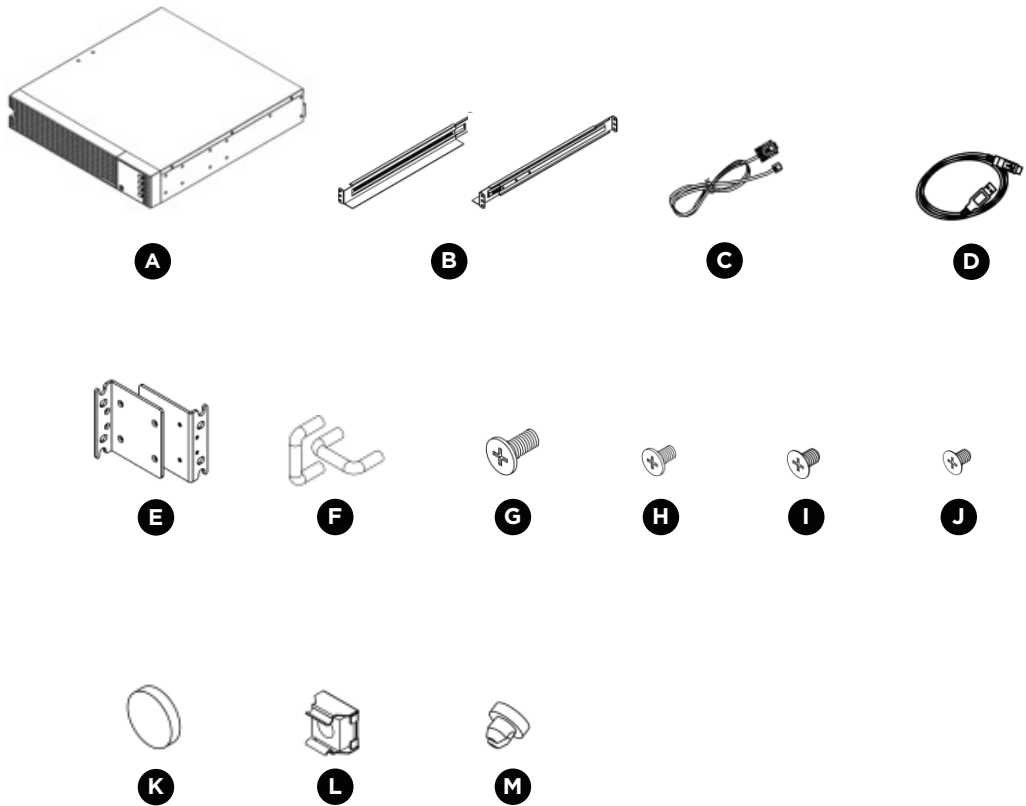
A. UPS x 1

B. Left and right rackmount rails x 1 each

C. Serial Interface Cable (RS-232) x 1

D. USB communication cable x 1

E. Rackmount ears x 2

F. Rackmount handles x 2

G. Black M5X8L pan head screws x 10

H. Black M4X7L pan head screws x 4

I. Black M4X8L flat head screws x 8

J. Black M3X6L flat head screws x 4

K. Rubber pads x 12

L. Cage nuts x 10

M. Screw hole dust covers x 18

N. Installation and Operation Manual, Registration Warranty Card, PowerPanel® Management Software download card

BASIC OPERATION

1. **Power Button / Power on Indicator**
   Master ON/OFF switch for the UPS. Indicates that the UPS is on and supplying power.

2. **UPS Status / Multifunction LCD Readout**
   Shows UPS status, information, settings and events.

3. **Function Buttons**
   Scroll DOWN scroll UP, ENTER, and ESCAPE.

4. **Outlets for Battery Backup & Surge Protected**
   Provides battery backup and surge protection. They ensure power is provided to connected equipment during the utility power failure.

5. **Extended Runtime Battery Module Connector**
   Connection for additional CyberPower External Battery modules.

6. **Input Circuit Breaker**
   Provides input overload and fault protection.

7. **AC Input power cord**
   Connect to utility power

8. **EPO (Emergency Power Off) Connector**
   Enables an emergency UPS power-off from a remote location.

9. **USB (HID Compliant) port**
   USB port provides communication between the UPS and a computer. The UPS can trigger a computer with PowerPanel Business software installed to shut down during a power outage through the connection while the computer can monitor the UPS and change its various programmable settings.

10. **Serial port**
    Serial port provides RS-232 communication between the UPS and a computer. The UPS can trigger a computer with PowerPanel Business software installed to shut down during a power outage through the connection while the computer can monitor the UPS and change its various programmable settings. Note: USB communication has priority over serial port.
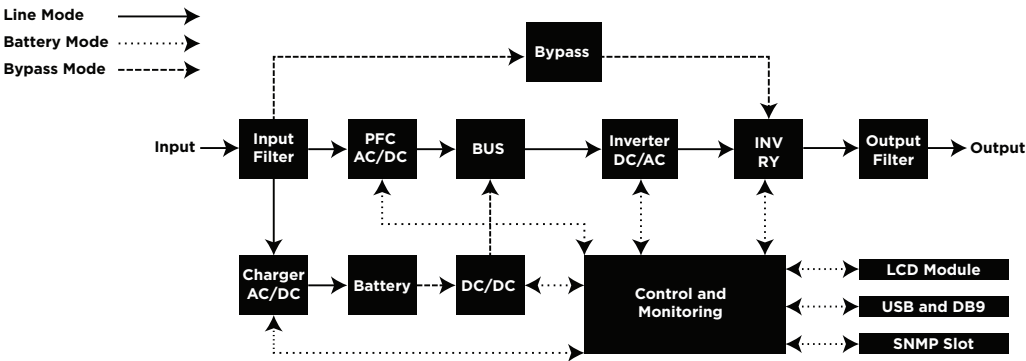
11. **Expansion Slot**
    Slot to install optional remote management card.

13. **Output Circuit Breaker**
    Provides output current overload and fault protection.

SYSTEM BLOCK DIAGRAM

HARDWARE INSTALLATION GUIDE

1. Battery charge loss may occur during shipping and storage. Before using the UPS, it is strongly recommended to charge batteries for four hours to ensure the batteries' maximum charge capacity. To recharge the batteries, simply connect the UPS to its designated AC electrical service.

2. When using PowerPanel Business software, connect either the serial or the USB cable between the computer and the corresponding port on the UPS. Note: If the USB port is used, the serial port will be disabled. They cannot be used simultaneously. After connecting to either the USB port or the serial port on the UPS, a computer with PowerPanel Business software installed can control the operating schedule, battery test, outlets, as well as obtain UPS status information. However, other computers with PowerPanel Business Client software can only obtain UPS status information via LAN connection.

3. Connect your computer, monitor, and any externally-powered data storage device (Hard drive, Tape drive, etc.) into the outlets only when the UPS is off and unplugged. DO NOT plug a laser printer, copier, space heater, vacuum, paper shredder or other large electrical device into the UPS. The power demands of these devices will overload and possibly damage the unit.

4. Press the ON/OFF switch to turn the UPS on. The Power-On indicator LED will turn on when activated. If an overload is detected, an audible alarm will sound and the UPS will continuously emit two beeps per second. For resetting the unit, unplug some equipment from the outlets. Make sure your equipment carries a load current within the unit's safe range, (refer to the technical specifications).

5. This UPS is equipped with an auto-charge feature. When the UPS is connected to AC electrical service the battery will automatically charge, even when the unit is switched off.

6. To maintain an optimal battery charge, leave the UPS connected to AC electrical service at all times.

HARDWARE INSTALLATION GUIDE

7. Before storing the UPS for an extended period of time, turn the unit OFF. Then cover it and store it with the batteries fully charged. Recharge the batteries every three months to ensure good battery capacity and long battery life. Maintaining a good battery charge will help prevent possible damage to the unit from battery leakage.

8. The UPS has one USB port (default) and one serial port that allows connection and communication between the UPS and any attached computer running PowerPanel Business software. The UPS can control the computer's shutdown during a power outage through the connection while the computer can monitor the UPS and alter various programmable parameters. Note: Only one communication port can be used at a time. The port not in use will automatically become disabled or the serial port will be disabled if both ports are attached.

9. EPO (Emergency Power Off) Port: EPO ports allow administrators the capability to connect the UPS unit to customer-supplied EPO switches. These installations give operators a single access point to immediately power-off all equipment connected to the UPS during an emergency. EPO function is provided in UPS. EPO remote switch which is Push-Back button is installed computer room outside by a phone line, and not connected any other equipment.

10. To avoid electric shock, turn the unit OFF and disconnect the unit from utility power before hardwiring the UPS (in/out power cord). The in/out power cord MUST be grounded.

11. Please note the internal UPS temperature will increase when fans are not in operation or ventilation is obstructed. When the high temperature sensor activates protection, the UPS generates an alarm and shuts down to avoid unexpected equipment damage. When the over temperature occurs, please check the Troubleshooting section. If the condition persists, please contact CyberPower for technical support.

12. The UPS may use with maximum 10 extended battery modules.

HARDWARE INSTALLATION

RACKMOUNT INSTALLATION FOR 4-POST RACK

CyberPower UPS systems can be installed in a rackmount orientation. Please follow the instructions below for the respective mounting methods.
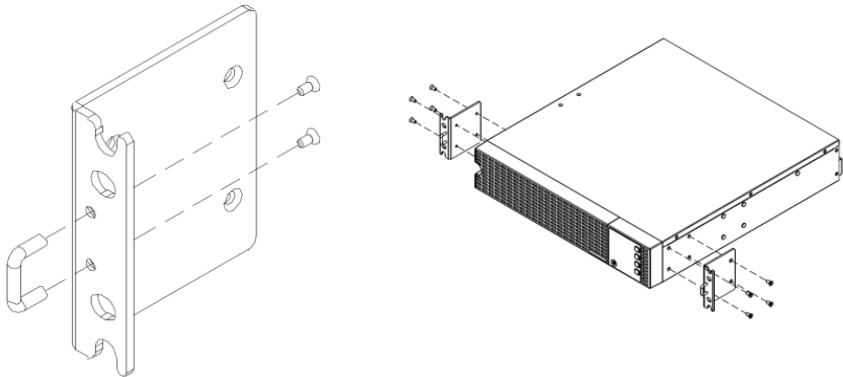
⚠️ **CAUTION!**

CAUTION! To prevent the risk of fire or electric shock, only use the supplied hardware to attach the mounting brackets.

Step 1: Screw the handles and install rackmount ear

Screw the handles on the rack-mount ears using four black M3X6L flat head screws as shown below. Attach two rackmount ears to the UPS using eight black M4X8L flat head screws.


Step 2: Rackmount rail Installation

Select the proper holes in the rack for positioning the UPS in the rack. The UPS takes up two rack units: rack hole positions 1 through 6.
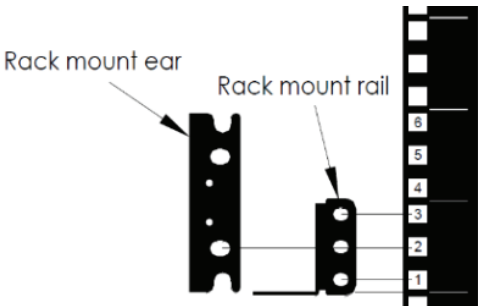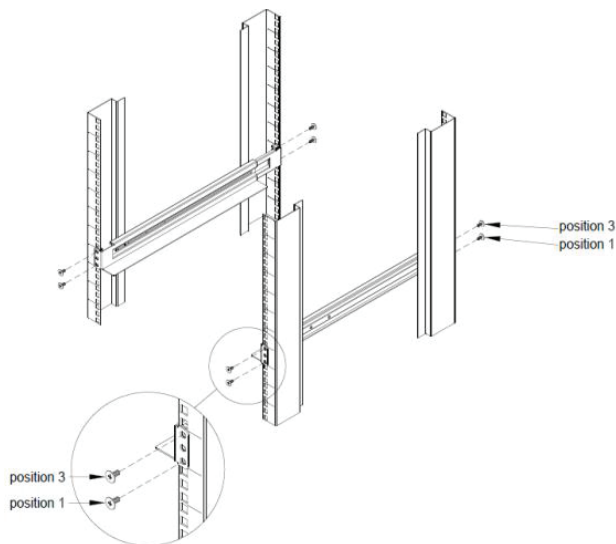
HARDWARE INSTALLATION

Step 3: Select the proper holes to insert the cage nuts

Select the proper holes in the rack for positioning the unit in the rack. Insert the cage nuts. (Not needed for threaded rack)
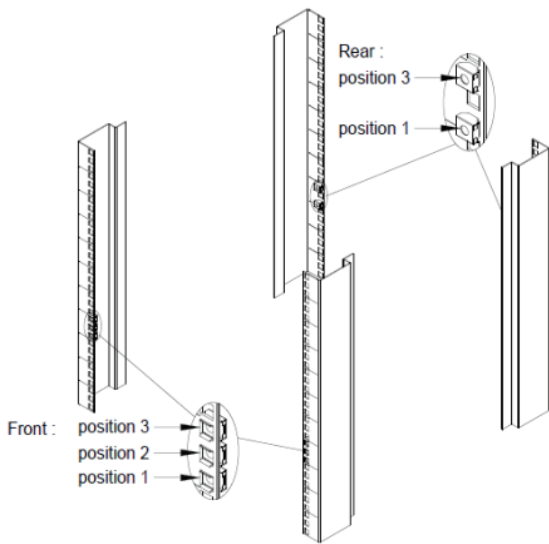
Step 4: Adjust rackmount rails to fit your rack

The mounting depth of the included rackmount rails can adjust from 18.1 in to 29 in (46 cm to 73.5 cm). Adjust the rail depth to match your rack depth. Attach each rackmount rail to your rack with two black M5X8L pan head screws at the front of the rack (square holes 1 and 3 as shown below). Secure each rail to the rear of the rack with two black M5X8L pan head screws.

HARDWARE INSTALLATION

Step 5: Place and secure the UPS on the rails

Slide the hanging brackets on the UPS on to the rails mounted in the rack with the front of the unit facing toward you. Secure the UPS to your rack with two black M5X8L pan head screws at the front of the rack (square holes 2 and 5 as shown above).
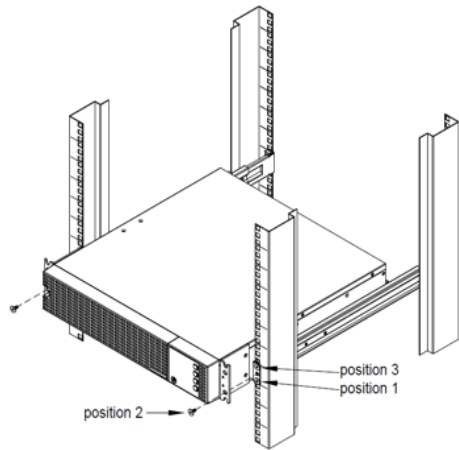
HARDWARE INSTALLATION

RACKMOUNT INSTALLATION FOR 2-POST RACK

⚠️ **CAUTION!**	**Due to the weight of this unit, it is strongly recommended to install it at the bottom of the rack.**
⚠️ **CAUTION!**	**Prior to installing the unit, remove internal batteries to reduce the weight of the unit. Refer to the battery replacement section in this user manual for instructions.**
⚠️ **CAUTION!**	**It is strongly recommend having two to three people assist during the installation process.**
⚠️ **CAUTION!**	**It is strongly recommended that the 2-post rack be bolted to the floor prior to the installation of the UPS.**
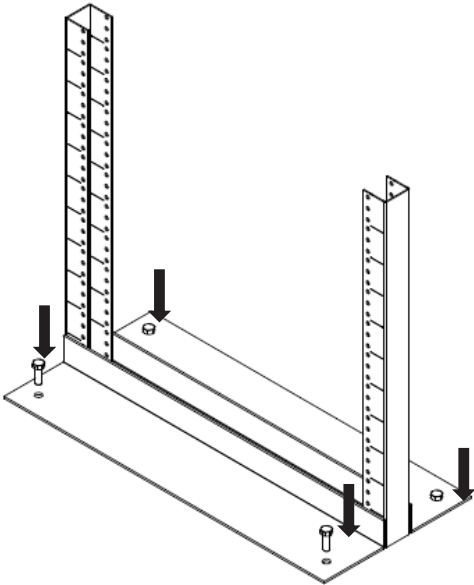
HARDWARE INSTALLATION

Step 1: Remove side dust covers and install rackmount ears

Remove eight dust covers from screw holes as shown below. Attach the included rackmount ears to the center holes on the sides of the UPS using eight black M4X8L flat head screws as shown below.
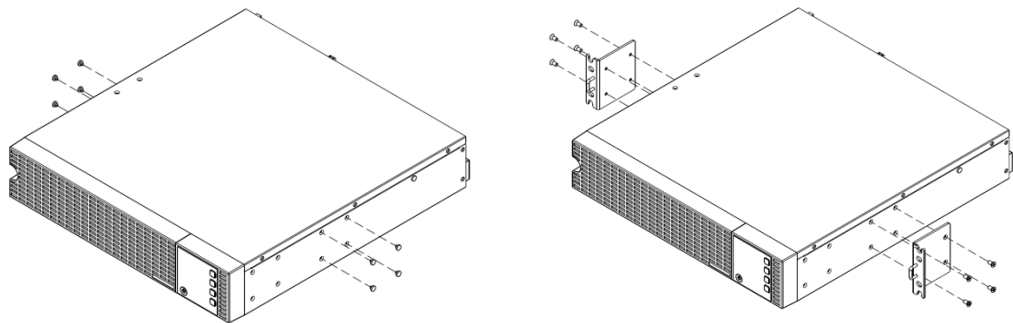
Step 2: Secure the UPS to the rack

Secure the UPS to your rack with four black M5X8L screws at the front of the rack (square holes 2 and 5 as shown below).
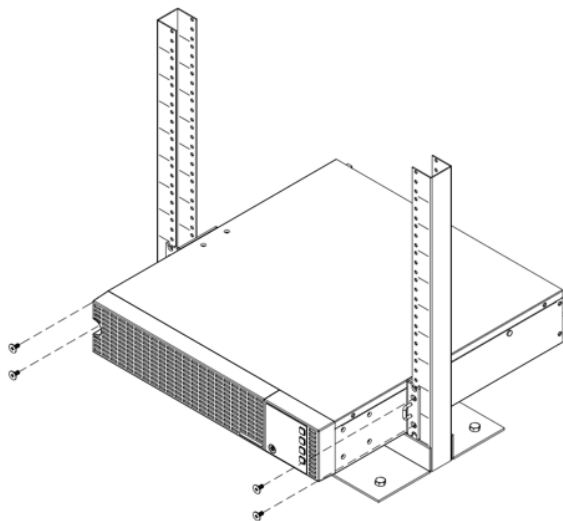
After completing the hardware installation of the UPS, you are now ready to connect the UPS and connect your equipment.

UPS SYSTEM STARTUP

To start the UPS:

1. Verify that the UPS input cable or terminal blocks are connected to AC source.
2. The UPS LCD shows "Standby Mode" and fans turn on.
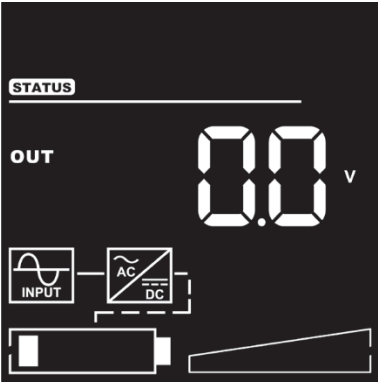
3. Press the ON/OFF button on the UPS front panel for at least 3 seconds to turn On the UPS.
4. UPS will perform a brief self-test lasting about 15 seconds. The LCD will be lighted up during this time.

5. The UPS is operating in Battery Mode first then transfer to Line Mode if Input power is qualification and powering the output.

USING THE UPS SYSTEM

LCD PANEL

ITEM	BUTTON	FUNCTION DESCRIPTION
1	ON/OFF	Press this button for at least 3 seconds to turn on or turn off UPS.
2	UP	Press this button to scroll up in the LCD menu.
3	DOWN	Press this button to scroll down in the LCD menu.
4	ENTER	Press this button to select an option.
5	ESC	Press this button to cancel or return to previous LCD menu.

USING THE UPS SYSTEM

LCD DISPLAY

There are 4 display Zones: Icon, Content, Event Code/Index and Topology

A. Icon Zone

In the top area, there are six icons for displaying the UPS working status, fault/warning and mute.

B. Content Zone

The Content area is on the middle screen.
The top of the content area is for displaying UPS Menu.
The bottom area is the UPS status which depends on different UPS status to provide different information including Input / Output / Battery / Load parameters.
Please find the **CHARACTER COMPARISON TABLE** for reference.

C. Topology Zone

The Content area is on the bottom screen.
In this area, there are six topologies for displaying the UPS working status. The topology will be lighted when the area is working.
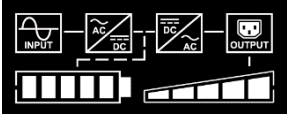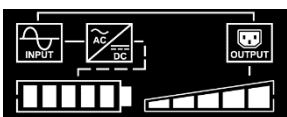
D. Event Code/Index Zone

In the upper right corner of the content area, there are two seven-segment displays to show the event code when UPS fault. This area will show the index of setup, event and information menus.

USING THE UPS SYSTEM

LCD SCREEN - UPS MODES OF OPERATION

UPS MODE		MODE DESCRIPTION	UPS TOPOLOGY: MODE DISPLAY
Line Mode	ONLINE	UPS is operating in line mode. The UPS is operating and protecting the equipment normally.	
Battery Mode	ON BATT.	UPS is operating in Battery Mode. A utility power failure has occurred. The UPS is using battery power to work and protect the equipment.	
Bypass Mode	BYPASS	UPS is operating in Bypass Mode. A Warning or Fault has been detected and the UPS transfers output to utility power.	
ECO Mode	ECO	UPS is operating in ECO (Economy) Mode. If Bypass quality is within the ECO mode setting specifications, the UPS will operate in Bypass until input power is disqualified per set specifications. At that time the UPS will automatically switch to Line Mode.	
UPS STATUS		STATUS DESCRIPTION	
Fault (Warning)	FAULT	A Warning or Fault has been detected and the UPS transfers output to utility power.	
Mute	MUTE	The audible alarm is disabled.	

USING THE UPS SYSTEM

FUNCTION TREE

MENU

STATUS

Output Voltage

Output Frequency

Input Voltage

Input Frequency

Output Load

Output Current

Output Watt

Output VA

Load Energy

Battery Voltage

Battery Capacity

Battery Runtime

UPS Temperature

SBM Stage

SETUP

Sync Freq Window
Bypass V Window
Bypass Condition
ECO Mode
Manual Bypass
Audible Alarms
External Batt
Generator Mode
Communication
Converter Mode
Screen Saver
Clear Event Log
Signal Inputs
Charger Check
Reset Replace Battery
IP Address
Reset Load Energy
Battery Test
Alarm Test
Indicator Test
Fan Test
Date & Time
Automatic Restore
Mandatory Power
Cycle
Recharged Delay Time
Recharged Capacity
Startup Delay
Periodical Batt Test
Low Batt Capacity
Low Batt Runtime
Wiring Fault
Button Off Lock
Charger Function

EVENT LOGS

Log Item1

Log Item2

Log Item3

Log Item4

Log Item5

Log Item6

Log Item7

Log Item8

Log Item9

Log Item10

Log Item11

Log Item12

INFORMATION

EBM Number

UPS Rating

MCU version

Model Name

Date & Time

Next Batt Change
Date

IP: RMCARD

Subnet Mask

Gateway

MAC

USING THE UPS SYSTEM

MAIN MENU: FUNCTION SELECT

1. Press the **ESC** button to enter the Main Menu.
2. The function block will blink when enter the Main Menu.
3. Press the **UP** and **DOWN** buttons to select the function.
4. Press the **ENTER** button to enter the selected function.

The Main Menu has four icons of different function listed in the table below.

FUNCTION SELECT MENU	ICON	DESCRIPTION
UPS STATUS	**STATUS**	Displays the UPS status.
SET UP	**SETUP**	Displays the UPS Set Up items that can be configured by the user.
EVENT LOGS	**EVENT**	Displays the 12 most recent events, by event count, time (Year/Month/Day Hour: Minute), and event description.
INFORMATION	**INFO**	Displays the UPS information.

1 - STATUS

There are 14 types of UPS status Readout available for display.

1. Select **UPS Status** Icons.
2. Press the **ENTER** button to enter the **UPS Status**.
3. Press the **UP** and **DOWN** buttons to scroll through the **UPS Status** items shown in the table below.
4. Press the **ESC** button to return to the Main Menu.

USING THE UPS SYSTEM

UPS STATUS ITEMS	DATA DISPLAYED	DESCRIPTION
OUTPUT VOLTAGE	= XXX.XV	Displays the Output Voltage
OUTPUT FREQUENCY	= XX.XHz	Displays the Output Frequency
INPUT VOLTAGE	= XXX.XV	Displays the Input Voltage
INPUT FREQUENCY	= XX.XHz	Displays the Input Frequency
OUTPUT LOAD	= XXX%	Displays the Output Load as a Percentage of Maximum Load
OUTPUT CURRENT	= X.XA	Displays the Output Current
OUTPUT WATT	= XXXXW	Displays the Output Wattage
OUTPUT VA	= XXXXVA	Displays the Output VA
LOAD ENERGY	= [XXXWh]/ [XXXXKWh]/ [XXXXKKWh]	Display UPS Load Energy Consumption
BATTERY VOLTAGE	= XX.XV	Displays the Battery Voltage
BATTERY CAPACITY	= XXX%	Displays the Estimated Percentage of Battery Capacity
BATTERY RUNTIME	= XXXM	Displays the Estimated Battery Runtime in Minutes
UPS TEMPERATURE	= XX°C / XXX°F	Displays the Approximate Internal UPS Temperature in both °C (Celsius) and °F (Fahrenheit)
SBM STAGE		Displays the stage of Smart Battery Management with Operation Time.

Example : Output Voltage 120.0V

USING THE UPS SYSTEM

2 - SETUP

There are 34 UPS items that can be Set Up by the user.

1. Press the **UP** and **DOWN** buttons to select the **SET UP** ICON.
2. Press the **ENTER** button to enter the **SET UP** function.
3. Press the **UP** and **DOWN** buttons to scroll to the **SET UP** option.
4. Press the **ENTER** button to select the **SET UP** submenu items shown in the table below.
5. Press the **ENTER** button to select the setting you want to set up.
6. The present SET UP parameter will be displayed in a blue color with a select mark in the front of setting parameters.
7. Press the **UP** and **DOWN** buttons to scroll through the different parameters.
8. Press the **ENTER** button to select the parameter you want to set.
9. You may be prompted **Save Change?** to save the selection, if so, press the **ENTER** button to save the setting. Some options are saved and started automatically. (See the following table and screen for additional details.)
10. Press the **ESC** button to cancel or return to the previous SET UP menu.

INDEX	SET UP ITEMS	AVAILABLE SETTINGS	DEFAULT SETTING
01	Output Voltage	[100V*] [110V**] [115V**] [120V] [125V] Sets UPS output voltage *When set Output Voltage to [100V], UPS will be derated to 80%. **When set Output Voltage to [110V] or [115V], UPS will be derated to 90%.	120V
02	Sync Freq Window	Range= [+/- 1%] [+/- 2%] [+/- 3%] [+/- 4%] [+/-5%] [+/- 6%] [+/- 7%] [+/- 8%] [+/- 9%] [+/-10%] Sets output synchronization frequency range If input line frequency is outside this range, the UPS will lock in at the nominal frequency.	+/-5%
03	Bypass Volt Window	Range= [+10%/-10%] [+10%/-15%] [+10%/-20%] [+15%/-10%] [+15%/-15%] [+15%/-20%] Sets Bypass Voltage range	+10%/-15%
04	Bypass Condition	[Check Volt/Freq] [Check Volt Only] [No Bypass] Bypass Condition: The default setting [Check Volt/Freq] means the UPS will check the following specifications (1) and (2) when UPS has fault and needs transfer to Bypass. The setting [Check Volt Only] means the UPS will check the following specification (1) when UPS has fault and needs transfer to Bypass. (1) Bypass voltage is inside the range of "Bypass V Window". (2) Bypass frequency is inside the range of "Sync Freq Range". The setting [No Bypass] means the UPS is forbidden to transfer to Bypass when UPS has fault.	Check Volt/ Freq

USING THE UPS SYSTEM

INDEX	SET UP ITEMS	AVAILABLE SETTINGS	DEFAULT SETTING
05	ECO Mode This function cannot be set when Manual Bypass, Generator Mode or Converter Mode is enabled.	[Disable] [Voltage= +/-15%] [Voltage = +/-10%] When ECO mode is enabled, the UPS will check the following specifications of Bypass quality (1) Bypass voltage is inside the [V Range= +/-10%] (default setting) or [V Range= +/-15%]. (2) Bypass frequency is inside the +/-3Hz range of output nominal frequency.	Disable
06	Manual Bypass	[Disable] [Enable] When performing UPS maintenance, the user can manually transfer the connected load to Bypass without interrupting the output to the connected equipment.	Disable
07	Audible Alarms	[Disable] [Enable] [Only Bat Low] User can [Disable] or [Enable] the buzzer sound.	Enable
08	External Batt	[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] Sets the actual EBM (extended battery modules) number to get the correct estimated runtime.	0
09	Generator Mode UPS has no bypass when Generator Mode is enabled. UPS be derated to 60% when Generator Mode is enabled.	[Disable] [Enable] When the UPS input power source is a generator set the UPS will operate normally without transferring to Battery Mode when this is [Enable].	Disable
10	Communication	[Disable] [Enable] All communication ports on the UPS are [Disable] or [Enable]	Enable
11	Converter Mode UPS has no bypass when Converter Mode is enabled. This function can only be set before the UPS is on. UPS be derated to 60% when Converter Mode is enabled.	[Disable] [Output Freq = 50Hz] [[Output Freq = 60Hz] Sets [Output Freq = 50Hz] [[Output Freq = 60Hz] to convert the input frequency to required output frequency.	Disable
12	Screen Saver	[Disable] [1 Minute] [5 Minutes] Sets the amount of time the LCD screen stays on after no user input. The [Disable] option keeps the LCD screen on at all times.	5 Minutes
13	Clear Event Log	[Activate?] Clears all the events stored in the LCD Control Panel Event Log.	None

# USING THE UPS SYSTEM

INDEX	SET UP ITEMS	AVAILABLE SETTINGS	DEFAULT SETTING
14	Signal Inputs	[Disable] [EPO] [ROO] Sets [EPO] (Emergency Power Off) to shutdown the UPS remotely when the contact is open. Sets [ROO] (Remote On/Off) to turn On the UPS remotely when the contact is close and turn Off the UPS remotely when the contact is open. The On/Off power button on front panel will be disabled when set to [ROO].	Disable
15	Charger Check	[Disable] [Enable] Sets [Disable] or [Enable] to constantly monitor the charger function.	Enable
16	Reset Replace Battery	[Clear] [Setup] Manually reset the Battery Replacement date.	None
17	IP Address	[DHCP] [Manual] Select [Mode: Manual] to set IP Address, Subnet Mask and Gateway to network interface (RMCARD) or select DHCP to set automatically.	DHCP
18	Reset Load Energy	[Activate] Reset Load Energy Consumption (KWH) value.	None
19	Battery Test	[Activate] Starts a manual battery test, UPS will operate 10 seconds on Battery mode to check battery condition.	None
20	Alarm Test	[Activate] Starts a manual Alarm test, buzzer will sound for 5 seconds.	None
21	Indicator Test	[Activate] Starts a manual Indicator test.	None
22	Fan Test	[Activate] Starts a manual Fan test, UPS will operate fan with full speed for five seconds.	None
23	Date & Time	[----] [--.--] [--:--] Set Year/Month/Day Hour: Minute: Second to UPS or get Date & Time from PPBE (Agent) or RMCARD automatically.	None
24	Automatic Restore	[Disable] [Enable] User can [Disable] or [Enable] the auto restart function.	Enable
25	Mandatory Power Cycle	[Disable] [Enable] User can [Disable] or [Enable] the Mandatory power cycle function.	Disable

USING THE UPS SYSTEM

INDEX	SET UP ITEMS	AVAILABLE SETTINGS	DEFAULT SETTING
26	Recharged Delay Time †	[0 Minute] [1 Minute] [2 Minutes] [3 Minutes] [5 Minutes] [10 Minutes] [20 Minutes] [30 Minutes] [60 Minutes] When the utility power restores, the UPS will start to recharge until the specified delay is expired before restoring output power. † During the UPS performs an autorestart process, when the conditions reach the setting of **26. Recharged Delay Time** and **27. Recharged Capacity** at the same time, the UPS will restore output.	0 Minute
27	Recharged Capacity †	[0%] [15%] [30%] [45%] [60%] [75%] [90%] When the utility power restores, the UPS will start to recharge until the specified battery capacity is met before restoring output power.	0%
28	Startup Delay	[0 Minute] [1 Minute] [2 Minutes] [3 Minutes] [4 Minutes] [5 Minutes] [6 Minutes] [7 Minutes] [8 Minutes] [9 Minutes] [10 Minutes] When the utility power restores, the UPS will delay the restoration of output power.	0 Minute
29	Period Battery Test	[Disable] [1 Week] [2 Weeks] [3 Weeks] [4 Weeks] Sets the battery test period.	Disable
30	Low Battery Threshold † †	[20%] [25%] [30%] [35%] [40%] [45%] [50%] [55%] [60%] [65%] Sets the capacity to alarm battery low. † † The battery low alarm triggers when **30. Low Battery Threshold** or **31. Low Runtime Threshold** is reached.	20%
31	Low Runtime Threshold † †	[0 Minute] [1 Minute] [2 Minutes] [3 Minutes]...... [29 Minutes] [30 Minutes] Sets the Runtime to alarm battery low.	5 Minutes
32	Wiring Fault	[Disable] [Enable] Sets [Disable] or [Enable] the auto checking of Input wiring fault.	Disable
33	Button Off Lock	[Disable] [Enable] When [Enable] is set the Power ON/OFF Button is locked and will not function to prevent accidental UPS power ON/OFF operation.	Disable
34	Charger Function	[SBM] [Constant] Sets [SBM] to activate the Smart Battery Management to charge the batteries. Sets [Constant] to use trickle charge method to charge the batteries.	SBM

USING THE UPS SYSTEM

Example: Index 01, SETUP: Output Voltage to 110V then press enter to save the setting.
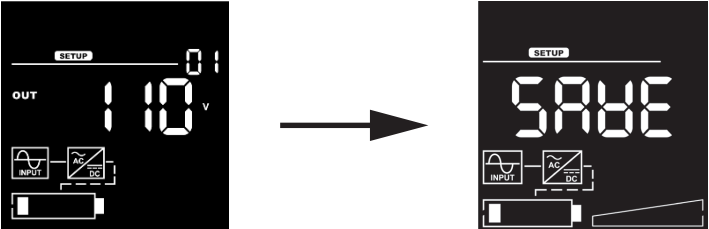
3 - EVENT LOGS

The UPS will record the 12 most recent system events in the Event Log.

1. Select **EVENT** Icons.
2. Press the **ENTER** button to enter the **Event Logs**.
3. Press the **UP** and **DOWN** buttons to scroll through the **Event Logs**. The UPS will record events listed in the table below.

INDEX	EVENT DISPLAYED	DESCRIPTION
xx	Event Content	Event description [Please check the Event Code List.]

4. When selecting the submenu item, the index which represents the sequence will be exhibited.
5. Press the **ENTER** button to see the event code and event date/time.

INDEX	EVENT DISPLAYED	DESCRIPTION
xx	[C-XX] (XXD)(XXH)(XXM) / [- - - -] [--.--] [--:--]	Event Code Number : [C-XX] Event date and time : (XXD)(XXH)(XXM) (Without PowerPanel Business or RMCARD) [- - - -] [--.--] [--:--] [Year][Month.Day][Hour: Minute] (With PowerPanel Business or RMCARD)

Example: Event 1: Battery Failure / 21 min ago
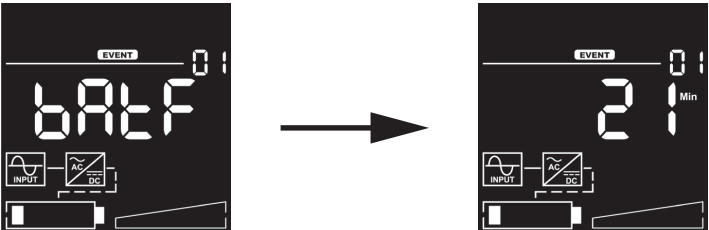
USING THE UPS SYSTEM

4 - INFORMATION

There are 10 UPS Information items that can be tested by the user.

1. Select **INFO** Icons.

2. Press the **ENTER** button to enter the **INFO**.

3. Press the **UP** and **DOWN** buttons to scroll through the **INFO** items shown in the table below.

4. Press the **ESC** button to return to the Main Menu.

INDEX	ABOUT ITEM	DATA DISPLAYED	DESCRIPTION
01	EBM Number	X	Displays the Number of Extended Battery Modules
02	UPS Rating	XXXXVA/XXXXW	Displays the UPS Rating
03	MCU Version	[XXXX]	Displays the UPS MCU Firmware Version
04	Model Name		Displays the UPS Model Name
05	Date and Time	[- - - -] [- - . - -] [- - : - -]	Displays the present Date & Time
06	Next BATT Change	[- - - -] [- - . - -]	Displays the next Battery Change Date & Time
07	IP	[1.XXX] [2.XXX] [3.XXX] [4.XXX]	Display the network IP address
08	Subnet Mask	[1.XXX] [2.XXX] [3.XXX] [4.XXX]	Display the network Subnet Mask
09	Gateway	[1.XXX] [2.XXX] [3.XXX] [4.XXX]	Display the network Gateway
10	MAC	[XX.XX][XX.XX][XX.XX]	Display the network card MAC address

Example: Index 1, EBM Number=0
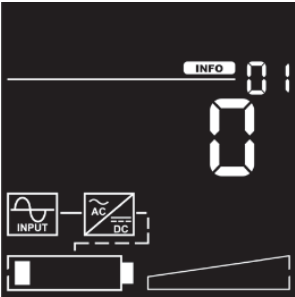
USING THE UPS SYSTEM

EVENT CODE LIST

EVENT CODE	EVENT CONTENT	LCD DISPLAY	DESCRIPTION
01	Over Charge	OUCH	The battery has been charged too high voltage.
02	Charger Failure	CHGF	The battery charger has malfunctioned.
04	Battery Low	bATL	The battery has been discharged to low level.
05	Battery Failure	bAtF	The UPS has detected battery failure.
06	BAT Disconnected	bAtd	The UPS has not detected batteries.
07	Service Battery	SbAt	The battery replacement date has reached the maintenance period.
12	Load Over Set%	LLAL	The UPS has detected output watt or VA has exceeded user set parameter.
21	Output Short	OPSt	The UPS has detected output short.
22	Output Overload	OPOL	The UPS has detected output watt or VA are too high.
25	EPO OFF	EOFF	The UPS has been turned off by EPO.
27	ROO OFF	rOFF	The UPS has been turned off by ROO.
30	Inverter Fault	InUF	The inverter has malfunctioned.
31	High Output Voltage	H IOP	The UPS has detected inverter voltage too high.
32	Low Output Voltage	LOOP	The UPS has detected Inverter voltage too low.
33	Over Temperature	OUtP	The UPS has detected internal temperature too high.

USING THE UPS SYSTEM

EVENT CODE	EVENT CONTENT	LCD DISPLAY	DESCRIPTION
34	Fan Error	FAnE	The UPS has detected a fan malfunction.
40	Bus Fault	bUSF	The UPS has detected DC Bus too high or low.
41	Bus Fault +High		The UPS has detected +DC Bus too high.
42	Bus Fault +Low		The UPS has detected +DC Bus too low.
43	Bus Fault -High		The UPS has detected -DC Bus too high.
44	Bus Fault -Low		The UPS has detected -DC Bus too low.
50	Input Power Fail	IPPF	The UPS has detected input voltage or frequency out of range.
51	Input V+Hz out of range		The UPS has detected input voltage and frequency out of range.
52	Input V out of range		The UPS has detected input voltage out of range.
53	Input Hz out of range		The UPS has detected input frequency out of range.
54	Line Abnormal	L IAb	The UPS has detected the utility is out of range when the UPS is running auto-restart process.
55	Wiring Fault	u ItF	The UPS has detected the input line/neutral wire are reversed or without ground wire.
N/A	Ready ON	rdOn	The UPS has been turned on.
N/A	Shutdown	SHUt	The UPS has been shutdown.
N/A	Battery Mode	bAtn	The UPS has been entered battery mode.
N/A	Sleep Mode	SLPn	The UPS has been entered sleep mode.
N/A	Battery Test	bAtt	The batteries have been tested.

USING THE UPS SYSTEM

EVENT CODE LIST

WORD	LCD DISPLAY	DESCRIPTION
NO	n0	NO Bypass/NO IP Address
ENA	EnA	Enable
DIS	dIS	Disable
ACT	ACt	Activate
SAVE	SAVE	Save
LOCK	LOCH	Button Off Lock/Cold Start Lock
VOFE	VOFE	Bypass Condition: Check Voltage and Frequency
OLVO	OLVO	Bypass Condition: Check Only Voltage
OLBL	OLbL	Buzzer Enable Only Battery Low
CLER	CLEr	Clear
SETU	SEtU	Setup
EPO	EPO	Emergency Power Off
ROO	rOO	Remote On/Off
DHCP	dHCP	IP address: DHCP
MANU	MAnU	IP address: Manual
BATE	bAtE	Battery Test
ALTE	ALtE	Alarm Test
INTE	IntE	Indicator Test
FATE	FAtE	Fan Test
NULL	nULL	NULL

TROUBLESHOOTING

LCD will use FAULT ICON with RED to indicate the Fault Warning or status.

EVENT CODE	WARNING	ICON	POSSIBLE CAUSE	SOLUTION
N/A	Battery Mode	ON BATT.	UPS is operating on battery power.	Save your data and perform a controlled shutdown.
01	Over Charge		Battery is overcharged.	Remove battery connector and check charger voltage.
04	Battery Low		UPS is operating on battery power and the alarm triggers when the set percentage of battery capacity or remaining backup time is reached. UPS will be shutting down soon due to extremely low battery voltage.	UPS will restart automatically when acceptable utility power returns.
05	Battery Failure	FAULT	UPS has failed in Battery Test.	Check battery connector and battery fuse. Contact technical support to replace the battery.
06	BAT Disconnected		Missing battery power.	Check battery connector and battery fuse.
07	Service Battery		The Battery Replacement Date has reached the recommended maintenance period.	If batteries have been recently replaced, then reset the Battery Replacement Date using PowerPanel Business Agent software, RMCARD interface or through the LCD control panel on the UPS (See LCD Setting Configuration).
12	Load Over XXX%		Your equipment requires more power than the setting in the Power Management Software (Power Panel Business) will allow.	Shut off the non-essential equipment or increase the level in the Power Management Software.

TROUBLESHOOTING

EVENT CODE	WARNING	ICON	POSSIBLE CAUSE	SOLUTION
21	Output Short		Output short circuit.	Your attached equipment may have problems, please remove them and check again.
22	Output Overload		Your equipment requires more power than the UPS can provide. If the UPS is in Line Mode, then it will transfer to Bypass Mode; if the UPS is in Battery Mode it will shutdown.	Shut off non-essential equipment. If this solves the overload problem, the UPS will transfer to normal operation.
25	EPO OFF		Missing the EPO connection.	Check the EPO connection.
27	ROO OFF		Missing the ROO connection.	Check the ROO connection.
33	Over Temperature		High temperature sensor activates protection.	Check the fan for operation and if the ventilation hole has been covered.
54	Line Abnormal	⚠ FAULT	Utility power is out of range for the UPS to autorestart.	Check whether voltage or frequency of utility power is out of range.
55	Wiring Fault		Line and neutral wires are reversed.	Exchange line and neutral wires.
			Missing ground wire.	Connect ground wire.
			No ground wire.	Disable Wiring Fault alarm on LCD panel.
02	Charger Failure		Charger has failed.	Contact CyberPower for assistance.
31	High Output V		Output voltage is too high.	Shut down UPS and turn off input breaker. Contact CyberPower for assistance.
32	Low Output V		Output voltage is too low.	
40	Bus Fault		Internal DC bus voltage is too high or too low.	
34	Fan Error		Internal Fan has failed.	Perform a Fan Test and check the Alarm. If the Alarm continues, shutdown UPS and turn off input breaker. Contact CyberPower for assistance.

MAINTENANCE

STORAGE

To store your UPS for an extended period of time, cover and store it with the battery fully charged. Recharge the battery every three months to ensure battery life.

BATTERY REPLACEMENT

Please read and follow the Safety Instructions before servicing the battery. Battery replacement should be performed by trained personnel who are familiar with the procedures and safety precautions. Make a note of the Replacement Battery part number. When replacing batteries, replace with the same type and number of batteries or battery packs.

SAFETY PRECAUTIONS

⚠ **WARNING!**	**WARNING! RISK OF ELECTRIC SHOCK**

Only use replacement batteries that are certified by Cyber Power Systems. Use of incorrect battery type is an electrical hazard that could lead to explosion, fire, electric shock, or short circuit. Batteries contain an electrical charge that can cause severe burns. Before servicing batteries, please remove any conductive materials such as jewelry, chains, wrist watches, and rings. Do not open or mutilate the batteries. Electrolyte fluid is harmful to the skin/eyes and may be toxic.

To avoid electric shock, turn off and unplug the UPS from the wall receptacle before servicing the battery. Only use tools with insulated handles. Do not lay tools or metal parts on top of the UPS or battery terminals.

REPLACEMENT BATTERIES

Please refer to the front side of the EBM for the model number of the correct replacement batteries. For battery procurement, go to www.CyberPowerSystems.com, or contact your local dealer. When the Replace Battery the LCD displays Service Battery, use PowerPanel Business software or log on to the RMCARD to perform a runtime calibration to verify battery capacity is sufficient and acceptable.

🗑	**DO NOT DISCARD IN HOUSEHOLD TRASH**

BATTERY DISPOSAL

Batteries are considered hazardous waste and must be disposed of properly. Contact your local government for more information about proper disposal and recycling of batteries. Do not dispose of batteries in fire. Cyber Power Systems encourages environmentally sound methods for disposal and recycling of its UPS products. Please dispose and/or recycle your UPS and batteries in accordance with local regulations.

MAINTENANCE

BATTERY REPLACEMENT

Step 1: Remove the front panel and unscrew the battery access door. This screw is designed to be fixed on the door, do not remove it from the metal cover.
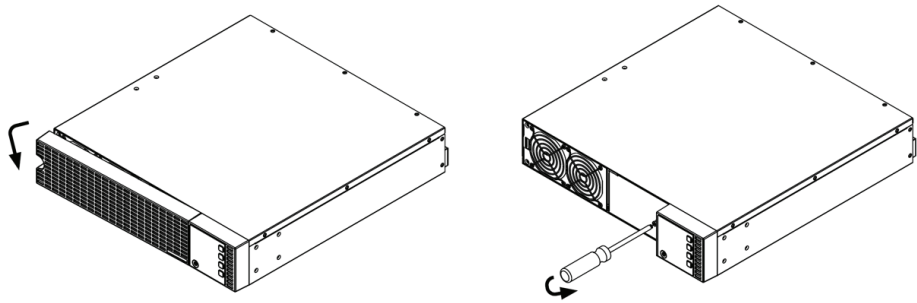
Step 2: Disconnect the internal battery connectors and unscrew the thumbscrew on the battery retention bracket and then remove it.
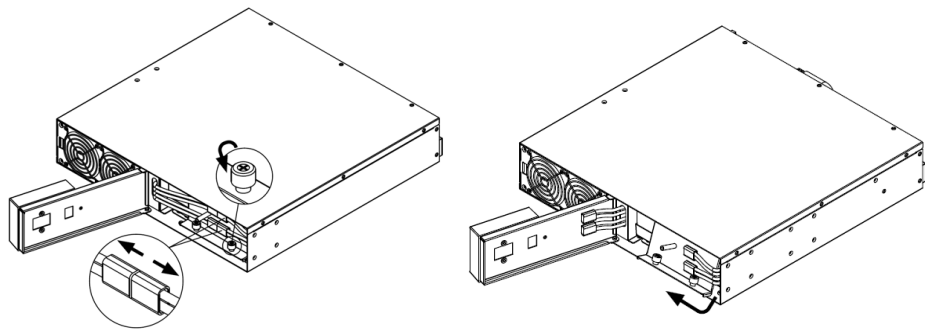
**Step 3:** Pull the battery trays out slowly and then put the new battery trays into the compartment.
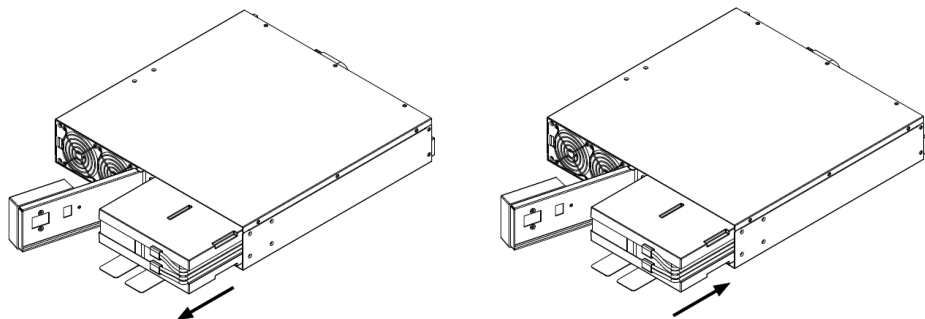
MAINTENANCE

Step 4: Assemble the battery retention bracket and tighten the thumbscrew and assemble the battery retention bracket and tighten the thumbscrew. Connect the internal battery connector. Ensure that they are seated properly (connector will click into place).
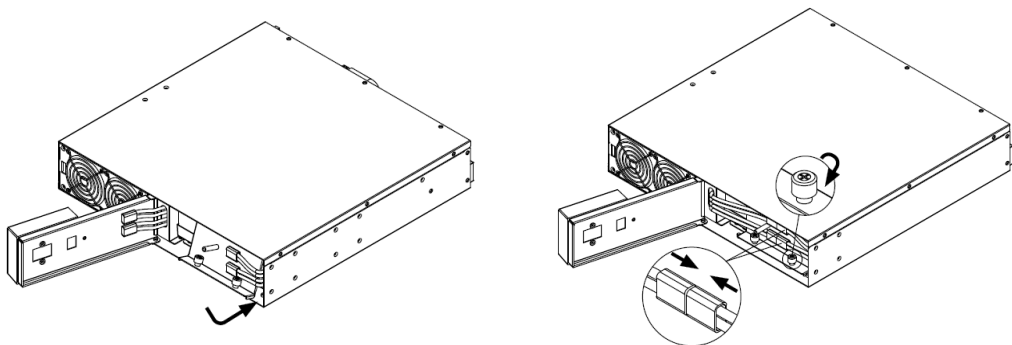
Step 5: Tighten the screw on the battery access door and install the front panel.
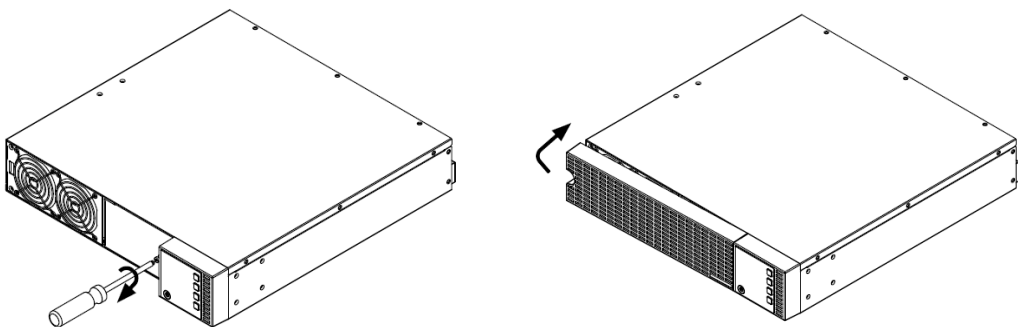
Step 6: Execute a battery test via the LCD control panel. To do this go to the Main Menu and select the Diagnostics Icon, then select Battery Test and Activate. After Battery test, go back to the Main Menu then select the Set UP icon, then select Batt Install Date to set the battery installation date. This operation can also be done via PowerPanel Business or the RMCARD web interface. Please see their respective User Manuals for detailed instructions.

TECHNICAL SPECIFICATIONS

MODEL	OL750RM	OL1KRM	OL1K5RM	OL2K2RM	OL3KRM
Configuration					
Capacity (VA)	750	1000	1500	2200	3000
Capacity (Watts)	600	800	1200	1600	2400
Form Factor	Rackmount				
Energy-saving Technology	> 96%				
Input					
Input Power Plug	NEMA 5-15P			NEMA 5-20P	NEMA 5-30P
Input Voltage	100 - 125 Vac				
Input Frequency	50 / 60Hz				
Input Power Factor	0.99				
Cold Start	Yes				
Output					
Output Waveform	Sine wave				
Output Voltage	100 / 110 / 115 / 120 / 125 Vac (Configurable) +/- 2%				
Output Frequency	50 / 60Hz (Auto-Sensing or Configurable) +/- 0.25Hz				
Transfer Time (Typical)	0ms				
Rated Power Factor	0.8			0.73	0.8
Harmonic Distortion	THD < 3% at Linear Load, < 5% at Non-linear Load				
Crest Factor	3 : 1				
ECO Mode Bypass Voltage Range	+/- 10%, +/- 15% (Configurable)				
Outlets	8 x NEMA 5-15R			6 x NEMA 5-20R 1 x NEMA L5-20R	6 x NEMA 5-20R 1 x NEMA L5-30R
Protection					
Surge Protection	710 J				
Overload Protection	Line Mode: 102% to 130% load for 12sec; 131% to 150% load for 2 sec; >150% load 300m Battery Mode: 102% to 130% load for 12 sec; >130% for 2 sec Bypass Mode: 102% to 110% warning; 111% to 130% load for 5min; 131% to 150% 16sec; >150% for 300m				
Short Circuit Protection	UPS Output Cut off Immediately or Input Fuse / Circuit Breaker Protection				

TECHNICAL SPECIFICATIONS

MODEL	OL750RM	OL1KRM	OL1K5RM	OL2K2RM	OL3KRM
Battery					
Battery Size	12V / 7Ah				
Battery Quantity	2		3		4
Battery Type	Sealed Lead-Acid Battery				
Recharge Time 0-90% (Typical)	4 hours				
Hot-Swappable	Yes				
LCD Screen	Multi-Function LCD Readout that Supports: Shows UPS status, information, settings and events.				
Audible Alarms	Battery Mode / Battery Low / Overload / UPS Fault				
Management & Communications					
On-Device Features	Start-up Self Test / Auto-Charge / Auto-Restart / Auto-Overload Recovery				
Connectivity Ports	1 x Serial Port (RS232) / 1 x USB Port / 1 x EPO				
SNMP/HTTP Capable	Remote Management Card is optional				
Environment					
Operating Temperature	32°F to 104°F (0°F to 40°C)				
Operating Relative Humidity	0 to 90% non-condensing				
Software					
Power Management Software	PowerPanel® Business				
Physical					
Dimensions Length/Width/Height	17.05 x 3.41 x 11.22 in. 433 x 86.5 x 285 mm		17.05 x 3.41 x 14.76 in. 433 x 86.5 x 375 mm		17.05 x 3.41 x 18.31 in. 433 x 86.5 x 465 mm
Net Weight	26.46 lbs. 12 kg		35.71 lbs. 16.20 kg	36.38 lbs. 16.50 kg	48.28 lbs. 21.90 kg
Certifications					
Safety	UL 1778 / CSA C22.2 NO. 107.3 FCC Part 15 Class B			UL 1778 / CSA C22.2 NO. 107.3 FCC Part 15 Class A	
Environmental	RoHS Compliant				

APPENDIX - CHARACTER COMPARISON TABLE

CHARACTER	LCD DISPLAY	CHARACTER	LCD DISPLAY	CHARACTER	LCD DISPLAY	CHARACTER	LCD DISPLAY
0	0	A	A	K	K	U	U
1	1	B	b	L	L	V	V
2	2	C	C	M	M	W	W
3	3	D	d	N	N	X	X
4	4	E	E	O	O	Y	Y
5	5	F	F	P	P		
6	6	G	G	Q	Q		
7	7	H	H	R	R		
8	8	I	I	S	S		
9	9	J	J	T	T		

CYBERPOWER GREENPOWER UPS™ TECHNOLOGY

Advanced Energy-Saving Patented Bypass Technology

CyberPower's patented GreenPower UPS™ with Bypass Technology reduces UPS energy costs by up to 75% compared to conventional UPS models. Even when utility power is normal, conventional UPS models constantly pass power through a transformer. By contrast, under normal conditions the advanced circuitry of a GreenPower UPS™ bypasses the transformer. As a result, the power efficiency is significantly increased while decreasing waste heat, using less energy, and reducing energy costs. When an abnormal power condition occurs, the GreenPower UPS™ automatically runs power through its transformer to regulate voltage and provide "safe" power. Since utility power is normal over 88% of the time, the GreenPower UPS™ operates primarily in its efficient bypass mode. The GreenPower UPS™ is also manufactured in accordance with the Restriction on Hazardous Substances (RoHS) directive making it one of the most environmentally-friendly on the market today.

FCC COMPLIANCE STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment This document is believed to be accurate, but CyberPower reserves the right to change or correct the contents and does not assume any responsibility for omissions or errors.

For 2200 and 3000VA Online UPS Models: NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Shielded signal cables must be used with this product to ensure compliance with the Class A FCC limits.

For 750, 1000 and 1500VA Online UPS Models: NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Canadian Compliance Statement
CAN ICES-3(A)/NMB(A)
CAN ICES-3 (B)/NMB-3(B)

LIMITED WARRANTY AND CONNECTED EQUIPMENT GUARANTEE

Please visit www.CyberPowerSystems.com for a copy of the Limited Warranty and Connected Equipment Guarantee.

Where Can I Get More Information?

The application of the United Nations Convention of Contracts for the International Sale of Goods is expressly excluded. CyberPower is the warrantor under this Limited Warranty. For further information please feel free to contact CyberPower at:
Cyber Power Systems (USA), Inc. 4241 12th Ave E., STE 400, Shakopee, MN 55379;
call us at **(877) 297-6937**; or submit a web ticket online at **cyberpowersystems.com/support**.

Disposal

Cyber Power Systems (USA), Inc. encourages environmentally sound methods for disposal and recycling of its UPS products. Please dispose and/or recycle your UPS and batteries in accordance to the local regulations of your state.

The Waste Electrical and Electronic Equipment (WEEE) Directive aims to contribute to sustainable production and consumption by contributing to the efficient use of resources and the retrieval of secondary raw materials through re-use, recycling, and other forms of recovery. The symbol on this product and/or its packaging indicates that the product must be disposed of separately from ordinary household wastes at its end of life. Contact your related WEEE management authority, local office, or your household waste disposal service about information on the recycling drop off site.

This product contains non-spillable lead acid batteries. The used batteries are considered hazardous waste and must be disposed through recycling. Do not dispose of used batteries with your ordinary household wastes. Dispose of the batteries according to local regulations. Note: Most retailers that sell lead-acid batteries collect used batteries for recycling, as required by local regulations.

WARNING: This product can expose you to chemicals including bisphenol A (BPA) and styrene, which is known to the State of California to cause reproductive harm and cancer. For more information, go to www.P65Warnings.ca.gov.

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