CyberPower

INSTALLATION AND OPERATION MANUAL

OLS6KE(A) OLS10KE(A)

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SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

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

UPS SAFETY NOTES

Install and use the UPS in the following environments:

- Temperature: 32°F 104°F (0°C 40°C); relative humidity: 0% to 95%
- Out of direct sunlight
- Away from heat source
- Stable surface, not subject to vibrations or shocks
- Away from dust and other particulates
- Away from corrosive substances, salts and flammable gases

SPECIAL SYMBOLS

| Í | 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. |

PERSONAL SAFETY



CAUTION

To reduce the risk of fire, connect the UPS to a branch circuit with 50 amperes (6,000VA), 75A (10,000 VA) maximum over-current protection in accordance with CE requirement.

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

Please use only VDE-tested, CE-marked mains cable, (e.g. the mains cable of your equipment), to connect the UPS to the AC outlet.

Please use only VDE-tested, CE-marked power cables to connect any equipment to the UPS.

SAFETY INSTRUCTIONS

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

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

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

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

DO NOT BLOCK OFF VENTILATION OPENINGS AROUND THE HOUSING!

DO NOT PLUG A LASER PRINTER, COPIER, SPACE HEATER, VACUUM, PAPER SHREDDER OR OTHER LARGE ELECTRICAL DEVICE TO THE UPS. THE POWER DEMANDS OF THESE DEVICES WILL POSSIBLY OVERLOAD AND DAMAGE YOUR UPS.

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

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



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:

- Remove watches, rings or other metal objects.
- Use tools with insulated handles.

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.

IMPORTANT SAFETY INSTRUCTIONS

PRODUCT SAFETY



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.

All UPS models covered in this document are permanently-connected equipment and only qualified maintenance personnel may carry out installations.

Wiring must be done by qualified personnel.

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.

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's not plugged in to the wall outlet.



BATTERY

Do not dispose of batteries in fire as the battery may explode.

Do not open or mutilate the battery, released electrolyte is harmful to the skin and eyes

INTRODUCTION

SMART APP ONLINE UPS SYSTEMS

CyberPower Smart App Online rack/tower 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.

UPS EXTENDED BATTERY MODULES

Extended Battery Modules (EBMs) from CyberPower (BPS192V7A, BPS192V9A, BPS240V7A, BPS240V9A) increase battery runtimes during power outages. The DC plug-and-play power connectors allow to daisy- chain additional EBMs to a UPS system.

INTRODUCTION

UNPACKING PROCEDURES



Information, advice, help

The equipment is very heavy, please handle with care. Wear safety shoes and use a hydraulic equipment lift if one is available. At least two people are required for all handling operations, including unpacking, lifting, and installation in a rack system. Do not use the lifting straps to carry the unit around; they are provided to manually unpack the unit only.

Inspect the UPS for shipping damage. If any shipping damage is found, report it to the carrier and your local dealer immediately.

Check the accessories included against the packing list. If there is any discrepancy, contact your local dealer immediately.

- 1 . Cut the straps.
- 2 . Remove the carton upward.
- 3 . Remove the buffering packaging and loosen four M4X10L screws between UPS and Pallet.
- 4 . Put the wood board as shown below. Make sure that the slide rests firmly against the pallet so it remains in place during unloading operations. Pull the UPS from the front with caution when sliding it off the pallet. For safety concerns, once your UPS is firmly in place, fixing the UPS on the floor by using an L-shaped Plate is highly recommended.



INTRODUCTION

WHATS IN THE BOX



| # | CONTENT | QTY |
|---|--------------------------------|-----|
| 1 | UPS | 1 |
| 2 | User's Manual | 1 |
| 3 | USB Communication Cable | 1 |
| 4 | EPO Connector Pin | 1 |
| 5 | L-shaped Plate | 2 |
| 6 | M4X10L Screws | 4 |
| 7 | Cable Gland | 1 |
| 8 | Round Head Cross Screws: M3X6L | 2 |

OVERVIEW

FRONT PANEL

OLS6KE/OLS10KE/OLS6KEA/OLS10KEA



1 . Power Button / Power on Indicator

Master ON/OFF switch for the UPS. Indicates that the UPS is on and supplying power.

2 . Function Buttons

Scroll DOWN scroll UP, ENTER, and ESCAPE.

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

OVERVIEW

REAR PANEL

OLS6KE/OLS10KE





4 . Parallel Port

The slot for parallel card (PARACARD401).

5 . EPO (Emergency Power Off) Connector

Enables an emergency UPS power-off from a remote location.

6 . Relay Output Connector

Convert UPS signals into real potential-free Dry Contacts for industrial control.

7 . 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.

8 . USB 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.

9 . EBM Detection Connector

Provide External Battery Module detection function by phone cable.

10 . Manual Bypass Switch

"UPS" means the load is supplied by the UPS; "BYPASS" means the load is supplied by the AC power source directly.

11 . Input and Output Terminal Block

Connect to utility power and equipment load.

12 . Extended Runtime Battery Module Connector

Connection for additional CyberPower Battery modules.

13 . Input Circuit Breaker

Provide input current overload and fault protection.

14 . SNMP/HTTP Network Slot

Slot to install the optional SNMP card for remote network control and monitoring.

15 . Cloud Monitoring Card (Ethernet Port)

15-1: Tx/Rx Indicator / **15-2:** Link Indicator The card connects a UPS to PowerPanel Cloud to provide users the ability monitor the operation of their UPS. For additional information, please refer https://www.cyberpower.com/global/en/product/series/powerpanel_cloud *REMINDER: NOT FOR TELECOMMUNICATION (TELEPHONE) NETWORK.



SYSTEM BLOCK DIAGRAM



HARDWARE INSTALLATION GUIDE

- 1 . Battery charge loss may occur during shipping and storage. Before using the UPS, it's 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. After connecting to either the USB port or the serial port on the UPS, a computer with PowerPanel Business Agent 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.

INSTALLING YOUR UPS SYSTEM

- 6 . To maintain an optimal battery charge, leave the UPS connected to AC electrical service at all times.
- 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 Agent 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.
- 9 . EPO (Emergency Power Off) / ROO (Remote on/off) Port: EPO/ROO ports allow administrators the capability to connect the UPS unit to customer-supplied EPO/ROO switches. If EPO is enabled, these installations give operators a single access point to immediately power-off all equipment connected to the UPS during an emergency. If ROO is enabled, these installations give operators an access point to turn on/off UPS remotely.
- 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.

INSTALLING YOUR UPS SYSTEM

HARDWARE INSTALLATION



Caution - Important Instructions: Must always be followed.

The UPS is very heavy. Please handle it with care. For safety concerns, fixing the UPS on the floor by using an L-shaped Plate is highly recommended.



INPUT / OUTPUT CONFIGURATION

The system must be installed and wired only by qualified electricians in accordance with applicable safety regulations!

For safety, please cut off the mains power switch before installation. When installing the electrical wiring, please note the nominal amperage of your incoming feeder.

Use cable cross section and protective device specification:

| Model | OLS6KE(A) | OLS10KE(A) |
|---|---------------------------------|---------------------------------|
| Protective earthing conductor Min cross section | 6mm ² (UL1015 10AWG) | 10mm ² (UL1015 8AWG) |
| Input L, N, G Min conductor cross section | 6mm ² (UL1015 10AWG) | 10mm ² (UL1015 8AWG) |
| Input breaker | 40A/250Vac | 63A/250Vac |
| Output L,N, Min conductor cross section | 6mm ² (UL1015 10AWG) | 10mm ² (UL1015 8AWG) |
| Torque for fixing above terminals | 3.95~4.97Nm (35~44 1b in) | |

Install the terminal block cover:

Insert the input/ output cable through the appropriate cable gland and install the terminal block cover by using M3X6L round head screws.



SET UP

When UPS needs to be executed the maintenance:

- 1. ENABLE "CO6 Manual Bypass" by LCD Panel.
- 2. Make sure that the UPS is operating in BYPASS mode.
- 3. Turn the maintenance bypass switch to "BYPASS".
- 4. Turn OFF the UPS (make sure that the LCD off and fan stops).

When the maintenance is completed, reactivate back UPS and go back to Normal mode:

- 1. Make sure that the UPS is operating in BYPASS mode. If UPS is operating in STANDBY MODE, please ENABLE "Manual Bypass" by LCD Panel.
- 2. Turn the maintenance bypass switch to "UPS".
- 3. DISABLE "Manual Bypass" by LCD Panel to cancel the bypass warning. (UPS is still in BYPASS MODE)
- 4. Turn on UPS by the LCD panel, UPS will back to Line mode.



MAINTENANCE SWITCH

DRY CONTACT AND EMERGENCY POWER OFF



| UPS Status | UPS Conditions | |
|---|--|--|
| I/P Power Fail | UPS detects utility failure. | |
| Battery Low | Battery capacity is lower than threshold. | |
| | UPS exits alarms due to Inverter Fault, Output Short, Over Temperature, | |
| Overload, Battery Overcharge, Low Battery, Wiring Fault, etc. | | |
| UPS On Bypass | UPS is operating in bypass mode. | |
| UPS Fail* | UPS has malfunctioned due to Inverter Fault, DC Power Fault, Over Temperature, etc. | |

*Default setting of dry relay contact is UPS Fail (Normally Open).

EPO (Emergency power off):

When the emergency occurs, such as the failure of load, the UPS can cut off the output at once by operating the EPO port manually.

Normally Open Contacts

Insert the wires or EPO connector pin to contact the EPO terminal block. Secure the wires by tightening the screws.

If the contacts are closed, the UPS will turn OFF and power will be removed from the load.

UPS SYSTEM STARTUP

After completing the hardware installation of the UPS, you are now ready to connect the UPS and connect your equipment.

To start the UPS:

- 1 . Verify that the UPS input cable or terminal blocks are connected to AC source.
- 2 . The UPS transfer to Standby mode fans turn on.
- 3 . Press the ON/OFF button on the UPS front panel for at least 3 seconds, then press ENTER button to turn on the UPS.
- 4 . The UPS is operating in Line Mode if Input power is qualification and powering the output. (When enabled cold start function, the UPS will operating in battery mode at beginning.)

LCD DESCRIPTION AND DISPLAY FUNCTIONS

LCD Panel and Buttons



| ITEM | BUTTON | FUNCTION DESCRIPTION | |
|------|--------|--|--|
| 1 | ON/OFF | Press this button for at least 3 seconds to turn on and off UPS. Click this button to mute the alarm. If the alarm status changes, the alarm will override the previous alarm silencing and will beep again. | |
| 2 | DOWN | Press this button to scroll down in the LCD menu. | |
| 3 | UP | Press this button to scroll up in the LCD menu. | |
| 4 | ENTER | Press this button to select an option. | |
| 5 | ESC | Press this button to cancel or return to the previous LCD menu. | |

LCD Icon

Function Select Menu

| UPS FUNCTION SELECT MENU (ICON) DESCRIPTION | | |
|--|--|--|
| STATUS | Displays the UPS status. | |
| CONFIG. | Displays the UPS Set Up items that can be configured by the user. | |
| EVENT | Displays the 20 most recent events, by event count, time (Year/Month/Day), and event description. | |
| INFO | Displays the UPS information. | |

UPS Modes of Operation and Topology:

| UPS MODE/ STATUS (ICON) | MODE/STATUS DESCRIPTION | UPS TOPOLOGY: MODE DISPLAY |
|----------------------------|---|----------------------------|
| | UPS is operating in Line Mode. The UPS is operating and protecting the equipment normally. | |
| 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. | |
| 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. | |
| BYPASS | UPS is operating in Bypass Mode. A Warning or Fault has been detected and the UPS transfers output to utility power. | |
| Converter Mode | Provides the flexibility to set the output frequency, regardless of the input frequency, to match connected equipment by selecting 50Hz or 60Hz output on the LCD control panel. | |
| MUTE | The audible alarm is disabled. | N/A |
| FAULT | A Fault has been detected and the UPS transfers output to utility power. | N/A |

FUNCTION TREE

UPS STATUS

| Output Voltage | | MAIN M | IENU | |
|------------------------|---------------------------|---------------------|------------|--|
| Output Frequency | | | | |
| Output Load (%) | | | | |
| Output Current | CONFIGURATION | TEST | EVENT LOGS | INFORMATIONS |
| Output Watt | Output Voltage | Battery Test | Event 01 | UPS Model Name |
| Output VA | Sync Frequency Window | Alarm Test | Event 02 | UPS Rating |
| Load Energy | Bypass Voltage Low | Panel Test | Event 03 | UPS Firmware Version |
| Input Voltage | Range | Battery | Event 04 | UPS Serial Number |
| Input Frequency | Bypass Voltage High | Runtime Calibration | Event 05 | Date & Time |
| Battery Voltage | Range | | Event 06 | EBM Number Last Battery Change Date |
| Battery Capacity (%) | Bypass Condition | | Event 07 | Next Battery Change Date |
| Battery Runtime (mins) | Manual Bypass | | Event 08 | IP Address |
| Charging current (A) | ECO Mode | | Event 09 | Subnet Mask |
| | ECO Voltage Range | | Event 10 | Gateway |
| | ECO Frequency Range | | Event 11 | MAC Address |
| | Generator Mode | | Event 12 | |
| | Converter Mode | | Event 13 | |
| | Signal Inputs | | Event 14 | |
| | Audible Alarm | | Event 15 | |
| | Screen Saver | | Event 16 | |
| | Dry Relay Function | | Event 17 | |
| | Reset Load Energy | | Event 18 | |
| | Clear Event Log | | Event 19 | |
| | Date & Time | | Event 20 | |
| | Cold Start | | | |
| | Automatic Restore | | | |
| | Minimum Restored Capacity | | | |
| | Charging Current | | | |
| | EBM Number | | | |
| | Battery Change Date | | | |
| | Period Battery Test | | | |
| | Low Capacity Warning | | | |
| | Parallel | | | |
| | Wiring Fault | | | |
| | Back to Default Setting | | | |
| | | | | |
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UPS STATUS

There are 13 types (7 pages) of UPS status readout available for display.

Press "UP" and "DOWN" buttons to scroll through the UPS Status items shown in the table below.

| # | ltem | Display | Description |
|---|--|---|--|
| 1 | Output Voltage and Frequency | OUTPUT: xxx.xV xx.xHz | Displays the Output Voltage and Frequency. |
| 2 | Output Load (%) and Current | O/PLOAD: XXX% CURRENT:XX.XA | Displays the Output Load as a Percentage of Maximum Load and Output Current. |
| 3 | Output Watt and VA | О/Р WATT: x x x x x W О/Р VA: x x x x x VA | Displays the Output Wattage and VA. |
| 4 | Load Energy | LOAD ENERGY: x x x x KWh | Display UPS Load Energy Consumption. |
| 5 | Input Voltage and Frequency | INPUT: xxx.xV xx.xHz | Displays the Input Voltage and Frequency. |
| 6 | Battery Voltage, Capacity, and Estimated Runtime | BATTERY: XXX% XXX.XV XXHXXM | Displays the Battery Voltage, Estimated Percentage of Battery Capacity and Estimated Battery Runtime in Minutes. |
| 7 | Charging current (A) | CHGR CURRENT: x.xxA | Displays the Charging Current. |

CONFIGURATION

There are 30 UPS items that can be configured by the user.

1. Press the "ENTER" button to enter the "Main Menu" layer.

2. Press the "UP" and "DOWN" buttons to scroll to the "Main Menu".

3. Press "ENTER" button to enter the "CONFIGUARTION".

| Setting Item & LCD Display | Available Settings (* = default setting) | Description | |
|-------------------------------|---|--|--|
| Output Voltage | [200], [208], [220], [230] *, [240] | Sets UPS output voltage. Please restart the UPS for the changes to take effect. | |
| C01 O/P Volt. | | | |
| Sync Freq Window | [±1%], [±2%], [±3%], [±4%], [±5%]* , | Sets output synchronization frequency range. If input line frequency is outside | |
| CO2 Sync. Freq. | [±6%], [±7%], [±8%] | this range, the UPS will lock in at the nominal frequency. | |
| Bypass Voltage Low Range | [10%]* , [15%], [20%] | Sets the percentage that the input voltage may be below the selected | |
| C03 BypassV Low | • • • • • • • • • • • • • • • • • • • | output voltage setting and remain in Bypass mode. | |
| Bypass Voltage High Range | [10%]* , [15%] | Sets the percentage that the input voltage may be above the selected | |
| CO4 BypassV High | | output voltage setting and remain in Bypass mode. | |
| Bypass Condition | [Check Freq/Volt]*, [Check Volt | The default setting [Check Freq/ Volt] 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 | |
| C05 Bypass Cond. | Only], [No Bypass] | and needs transfer to Bypass. The setting [No Bypass] means the UPS is forbidden to transfer to Bypass when UPS has fault. (1) Bypass voltage is inside the range of ""Bypass V Window"". (2) Bypass frequency is inside the range of ""Sync Freq Range""." | |

| Setting Item & LCD Display | Available Settings (* = default setting) | Description | |
|-------------------------------|---|--|--|
| Manual Bypass | [Disable]*, [Enable] | When performing UPS maintenance, user can manually transfer the connected load to Bypass without interrupting the output to the connected equipment. | |
| CO6 Manual Bypass | | output to the connected equipment. | |
| ECO Mode | [Disable]*, [Enable] | Sets the ECO operation for the UPS. NOTE: This function can't be set when Manual Bypass, Generator Mode or | |
| C07 ECO Mode | | Converter Mode is enabled. | |
| ECO Voltage Range | [10%]* , [15%] | Sets the percentage that the input voltage may be above or below the | |
| C08 ECO V Range | | selected output voltage setting and remain in ECO mode. | |
| ECO Frequency Range | [±1%], [±2%], [±3%], [±4%], [±5%]* , | Sets the percentage that the input frequency may be above or below the | |
| C09 ECO Freq. | [±6%], [±7%], [±8%] | selected frequency setting and remain in ECO mode. | |
| Generator Mode | [Disable]*, [Enable] | When the UPS input power source is a generator, the UPS will operate normally without transferring to Battery Mode when this is [Enable]. NOTE: Enabling ""Generator Mode"" | |
| C10 Generator | | allows the UPS to accept a wider voltage range and frequency variation than it would normally accept when plugged into a wall socket on utility. | |
| Converter Mode | [Disable]* , [Output Freq= 50Hz], | Selects the frequency of the output. NOTE: UPS has no bypass when | |
| C11 Converter | [Output Freq = 60Hz] | Converter Mode is enabled. This functio can only be set before turn on the UPS. | |

| Setting Item & LCD Display | Available Settings (* = default setting) | Description | |
|-------------------------------|---|---|--|
| Signal Inputs | [Disable]* , [EPO], [ROO] | Sets [EPO] (Emergency Power Off) to shutdown the UPS remotely when the contact is close. Sets [ROO] (Remote On/Off) to turn On the UPS remotely when the contact is close and twin Off the UPS remotely. | |
| C12 Signal Input | | 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]. | |
| Audible Alarm | [Disable], [Enable]* , [Muted] | User can [Disable] or [Enable] the buzzer sound or enable buzzer when | |
| C13 Audible Alarm | [[]]]]]]]]]][]]]]]]]]]]]]]]]]]]]]]]]]] | battery low. | |
| Screen Saver | [Disable], [1 Minute], [5 Minutes]* | Sets the amount of time of the LCD screen OFF after no user input. The [Disable] option keeps the LCD screen on at all times. | |
| C14 Screen Saver | | | |
| Dry Relay Function | [I/P Power Fail], [Battery Low], [UPS On Bypass], [UPS Fail]* , | Sets the output of dry contact. | |
| C15 Dry Relay | [Summary Alarm] | | |
| Reset Load Energy | Feloria | Reset Load Energy Consumption (KWH) | |
| C16 Reset Load | [Clear] | value. | |
| Clear Event Log | | Clears all the events stored in the EVENT | |
| C17 CLR Event Log | [Activate?] | LOGS of LCD Control Panel. | |
| Date & Time | /-/,: | Sets Year/Month/Day Hour: Minute: Second to UPS. Or get Date & Time from | |
| C18 Date&Time | (year/month/day, hr:min:sec) | PPBE (Agent) or RMCARD automatically. | |

| Setting Item & LCD Display | Available Settings (* = default setting) | Descr | iption | |
|-------------------------------|--|--|--|--|
| Cold Start | [Disable], [Enable]* | The UPS can start without utility when | | |
| C19 Cold Start | | this is [Enable]. | | |
| Automatic Restore | [Disable], [Enable]* | automatic restore fu [Enable] (default), th | User can [Disable] or [Enable] the automatic restore function. If selecting [Enable] (default), the UPS will restart | |
| C20 Auto Restore | | automatically when i restored after a com when battery is end | plete shutdown | |
| Minimum Restored Capacity | [0%] *, [15%], [30%], [45%], [60%], [75%], [90%] | When the utility power restores, the UPS , will start to recharge until the selected battery capacity is met before restoring output power. | | |
| C21 Min. Restore% | [, 5,6], [50,6] | | | |
| Charging Current | - | Sets the maximum cl the battery. NOTE: The available current is based on t the Extended Batter | setting of charging he quantity of | |
| | [1A]* , [2A], [3A], [4A] | Connected EBM number(s) | Available Setting of Charging Current | |
| C22 CHGR Current | | 0 | 1A | |
| | | 1 | 1A, 2A | |
| | | 2 | 1A, 2A, 3A | |
| | | > 2 | 1A, 2A, 3A, 4A | |
| EBM Number | | Sets the number of a battery module(s) or of external battery m | r allows the number nodule(s) with | |
| C25 EBM Number | [Autodetect]* , [0-10 pack(s)] | autodetect. Autodetect is used only for CyberPower EBMs. If more than 3 EBMs are connected, auto-detection does not funtion. | | |
| Battery Replace Date | | An optional setup item for users to record the installation date of the battery pack. Reset the date when replacing new battery pack. | | |
| C26 Replace Batt | -[Clear], [/] | | | |

| Setting Item & LCD Display | Available Settings (* = default setting) | Description | |
|-------------------------------|--|---|--|
| Period Battery Test | | The UPS can periodically self-test the | |
| C27 PD. BattTest | Weeks], [4 Weeks] | battery. Sets periodic test for battery. | |
| Low Capacity Warning | [10%], [15%], [20%]* , [25%], [30%], [35%], [40%], [45%], [50%], | Alert when the UPS supplies battery power and the remaining capacity is | |
| C28 Low CA. Warn | [55%], [60%], [65%] | lower than this threshold. | |
| Parallel Function | | Please refer to the user's manual of PARACARD401 for details. | |
| C29 Parallel | [Disable]* , [Enable] | | |
| Wiring Alarm | | Sets [Disable] or [Enable] the auto- | |
| C31 Wiring Alarm | [Disable]* , [Enable] | checking of Input wiring fault. | |
| Back to Default Setting | [Activate2] | Allows the user to restore the UPS factory default settings. | |
| C32 Default Set | [Activate?] | NOTE: This set up item is only available when UPS in standby mode. | |

<u>Test</u>

There are 4 UPS Diagnostic items that can be tested by the user.

- 1 . Press the "ENTER" button to enter the "Main Menu" layer.
- 2 . Press the "UP" and "DOWN" buttons to scroll to the "Main Menu".
- 3 . Press "ENTER" button to enter the "TEST".
- 4 . Press the "UP" and "DOWN" buttons to scroll to the "TEST" items shown in the table below.
- 5 . You may be prompted "Activate?" to act the selection, if so, press the "ENTER" button to act the test function and the test will start automatically.
- 6 . Press the "ESC" button to return to the Main Menu.

| Number | Item | LCD Display | Description |
|--------|-----------------------------------|-------------------------------|---|
| 1 | Battery Test | BATTERY TEST ACTIVATE? | Starts a manual battery test, UPS will operate 10 seconds on Battery mode to check battery condition. |
| 2 | Alarm Test | ALARM TEST ACTIVATE? | Starts a manual Alarm test, buzzer will sound for 5 seconds. |
| 3 | Panel Test | PANEL TEST ACTIVATE? | Starts a panel test, LCD will show the all icons and diagram for 5 seconds. |
| 4 | Battery Runtime Calibration | BAT RUNTIME CAL. ACTIVATE? | Starts a battery runtime calibration, UPS will operate few minutes (based on the load) on Battery mode to check battery condition. This function discharges batteries to near zero capacity with the load. The battery run time will be calibration after this process. Execution conditions of this test function: 1. UPS is working on Line mode or Eco mode. 2. The Load must be larger than 70%. 3. The Battery is fully charged and battery level is 100%. |

Event Logs

The UPS will record the 20 most recent system events (faults) in the Event Logs.

- 1 . Press the "ENTER" button to enter the "Main Menu" layer.
- 2 . Press the "UP" and "DOWN" buttons to scroll to the "Main Menu" items.
- 3 . Press "ENTER" button to enter the "EVENT LOGS".

| Event Displayed | Description |
|------------------------|--|
| F##// Event Content | Event date and time followed by event description. |

- 4 . Press the "UP" and "DOWN" buttons to scroll through the "Event Logs". The UPS will record events listed in the table below.
- 5 . If you want to clear the present Event logs data, press the "UP" and "DOWN" buttons to scroll to the "Clear Event Logs" Option then press the "Enter" button.
- 6 . You may be prompted "Activate?" to act the selection, if so press the "ENTER" button to act the Clear Event Logs function.
- 7 . Press the "ESC" button to return to the Main Menu.

| Event Code | Event Content | LCD Display | Description |
|---------------|-------------------------|------------------|---|
| 01 | Over Charge | 01 Over Charge | The Battery has been charged too High voltage. |
| 02 | Charger Failure | 02 Chgr Failure | The Battery Charger has malfunctioned. |
| 04 | Battery Low | 04 Battery Low | The Battery has been discharged to low level. |
| 05 | Battery Failure | 05 Batt Failure | The UPS has detected battery failure. |
| 06 | Battery Disconnected | 06 Batt Missing | The UPS has not detected batteries. |
| 07 | Service Battery | 07 Service Batt | The Battery Replacement Date has reached the maintenance period. |
| 12 | Load Over Set% | 12 Load Ovr Set% | The UPS has detected Output Watt or VA has exceeded user set parameter. |
| 21 | Output Short | 21 Output Short | The UPS has detected output short. |
| 22 | Output Overload | 22 O/P Overload | The UPS has detected Output Watt or VA are too High. |
| 25 | EPO Off | 25 EPO Off | The UPS has been turned off by EPO. |

Event Logs Cont.

Event Logs Cont.

| Event Code | Event Content | LCD Display | Description |
|---------------|-------------------------------|---------------------|--|
| 27 | ROO Off | 27 ROO Off | The UPS has been turned off by ROO. |
| 30 | Inverter Fault | 30 Inv Fault | The inverter has malfunctioned. |
| 31 | High Output Voltage | 31 High O/P Volit | The UPS has detected Inverter voltage too High. |
| 32 | Low Output Voltage | 32 Low O/P Volt | The UPS has detected Inverter voltage too Low. |
| 33 | Over Temperature | 33 Over Temp. | The UPS has detected internal temperature too High. |
| 34 | Fan Error | 34 Fan Error | The UPS has detected a fan malfunction. |
| 41 | BUS Fault High | 41 BUS High | The UPS has detected DC Bus too High. |
| 42 | BUS Fault Low | 42 BUS Low | The UPS has detected DC Bus too Low. |
| 40 | BUS Fault (Unbalance) | 40 BUS Unbalance | The UPS has detected DC Bus too High or Low. |
| 50 | Input Power Fail | 50 I/P PowerFail | The UPS has detected input voltage or frequency out of range. |
| 51 | Bypass Out Of Range | 51 Byp Out Range | The UPS has detected bypass voltage or frequency out of range. |
| 54 | Line Abnormal | 54 Line Abnormal | The UPS has detected the utility is out of range when the UPS is running auto-restart process. |
| UO | Manual Bypass | UO MANUAL BYPASS | The UPS is operating on manuay bypass status. |
| U1 | EEPROM Fail | U1 EEPROM Fail | EEPROM Fail |
| U2 | ADC Fail | U2 ADC Fail | The UPS has detected internal sensors fail. |
| U3 | Line out of Eco mode Range | U3 Out Eco Range | The Eco mode setting is enabled and the utility is out of Eco mode range. |
| U4 | Turn On Abnormal | U4 SWOn Abnormal | The UPS has detected the utility is out of range when the UPS is runing UPS turn on process. |
| U5 | Parallel cable Loss | U5 ParaCableLoss | The UPS has detected the wiring abnormal of Parallel connection. |
| U6 | WIRING Fail | U6 WIRING Fail | The UPS has detected the wiring abnormal of the input wiring (L-N-G). |

Information

- 1 . Press the "ENTER" button to enter the "Main Menu" layer.
- 2 . Press the "UP" and "DOWN" buttons to scroll to the "Main Menu".
- 3 . Press "ENTER" button to enter the "Informations".
- ${\rm 4}$. Press the "UP" and "DOWN" buttons to scroll through the "Informations" items shown in the table below.
- 5 . Press the "ESC" button to return to the "Main Menu".

| Number | ltem | LCD Display | Description |
|--------|-----------------------------|---|--|
| 1 | UPS Model Name | UPS MODEL NAME OLSXXKERTXU | Displays the UPS Model Name. *Only displays the main model name. |
| 2 | UPS Rating | U P S R A T I N G x x x x x V A / x x x x X W | Displays the UPS Rating. |
| 3 | UPS Firmware Version | UPSF/WVER. | Displays the UPS MCU Firmware Version. |
| 4 | UPS Serial Number | SERIAL NUMBER x x x x x x x x x x x x x x x x x x x | Displays the UPS Serial Number. |
| 5 | Date and Time | DATE & TIME yyyy/mm/dd hh:mm | Displays the present Date and Time. |
| 6 | EBM Number | EBM NUMBER xpcs | Displays the EBM (extended battery modules) number. |
| 7 | Last Battery Change Date | LAST BAT. CHANGE yyyy/mm/dd | Display the last battery change date. |
| 8 | Next Battery Change Date | NEXT BAT. CHANGE yyyy/mm/dd | Displays the next battery change date. |

Information Cont.

| Number | Item | LCD Display | Description |
|--------|-------------|---------------|--|
| 9 | IP Address | IP ADDRESS | Display the network IP address. *This is only shown when the RMCard has been connected. |
| 10 | Subnet Mask | SUBNET MASK | Display the network Subnet Mask. *This is only shown when the RMCard has been connected. |
| 11 | Gateway | G A T E W A Y | Display the network Gateway. *This is only shown when the RMCard has been connected. |
| 12 | MAC Address | MAC ADDRESS | Display the network card MAC address. *This is only shown when the RMCard has been connected. |

MAINTENANCE

STORAGE

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

SAFETY PRECAUTIONS



Warning: High voltage - Risk of Electric Shock

CAUTION! 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.

CAUTION! 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.

CAUTION! Do not open or mutilate the batteries. Electrolyte fluid is harmful to the skin/eyes and may be toxic.

CAUTION! To avoid electric shock, turn off and unplug the UPS from the wall receptacle before servicing the battery.

CAUTION! Only use tools with insulated handles. Do not lay tools or metal parts on top of the UPS or battery terminals.

BATTERY DISPOSAL



Do Not Discard

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.

BATTERY REPLACEMENT

For battery procurement, go to www.CyberPower.com, or contact your local dealer.

When the LCD displays Service Battery, use PowerPanel Business Agent software or log on to the RMCARD to perform a runtime calibration to verify battery capacity is sufficient and acceptable.

TECHNICAL SPECIFICATIONS

| Modelss | OLS6KEA | OLS6KE | OLS10KEA | OLS10KE | |
|-----------------------------|---|---|------------------------------------|-----------|--|
| CONFIGURATION | | | | | |
| Capacity (VA) | 6000 VA 10000 VA | | | 0 VA | |
| Capacity (Watts) | 600 | 0 W | 1000 | 00 W | |
| Energy-saving Technology | | ECO Mode Eff | iciency > 98% | | |
| INPUT | | | | | |
| Input Voltage Range | | 180V-300V @ > 145V-179V @ 509 110V-144V @ </th <td></td> <td>6</td> | | 6 | |
| Input Frequency Range | | 40~70 Hz (A | uto-Sensing) | | |
| Input Power Factor | | 0.9 | 99 | | |
| Cold Start | | Ye | es | | |
| OUTPUT | | | | | |
| Output Waveform | | Sine | wave | | |
| Output Voltage | 200*, 208*, 220, 230, 240 V ±1% (Configurable) | | | | |
| Output Frequency | 50/60 H | z ± 5% Hz (Auto- | Sensing or Conf | igurable) | |
| Transfer Time (Typical) | | Or | ns | | |
| Rated Power Factor | | - | 1 | | |
| THDV @Linear Load | | < 1. | 5 % | | |
| THDV @Non-Linear Load | < 2.0 % | | < 3. | 0 % | |
| Crest Factor | | 3 | :1 | | |
| PROTECTION | | | | | |
| Surge Protection | IEC 61000-4-5 Level 3 (1335 Joules) | | | | |
| Overload Protection | Line Mode: 105~130% Load for 10 sec, >130% Load for 1.5 sec Battery Mode: 105-130% Load for 10 sec, >130% Load for 1.5 sec | | | | |
| Short Circuit Protection | UPS Ou | tput Cut off Imm Circuit Break | nediately or Inpu er Protection | t Fuse / | |

TECHNICAL SPECIFICATIONS

| Modelss | OLS6KEA | OLS6KE | OLS10KEA | OLS10KE | | |
|----------------------------------|-----------------------------|-------------------|------------------|-------------|--|--|
| BATTERY | | | | | | |
| Specifications | 16 pcs x 12 V | 20pcs x 12V | 16pcs x 12V | 20pcs x 12V | | |
| Recharge Time 0-90% (Typical) | | 4 ho | ours | | | |
| Sealed, Maintenance Free | | Ye | es | | | |
| STATUS INDICATORS | | | | | | |
| LCD Screen | Mu | lti-Function Colo | r TFT-LCD Read | out | | |
| Audible Alarms | Battery | Mode, Battery L | ow, Overload, U | PS Fault | | |
| MANAGEMENT & COMMU | NICATIONS | | | | | |
| On-Device Features | Auto-Char | ge, Auto-Restar | t, Auto-Overload | Recovery | | |
| Connectivity Ports | (1 |) Serial Port (RS | 232), (1) USB Po | rt | | |
| ENVIRONMENT | | | | | | |
| Operating Temperature | | 32°F to 104°F | (0°C to 40°C) | | | |
| Operating Relative Humidity | 0 to 95% Non-Condensing | | | | | |
| SOFTWARE | SOFTWARE | | | | | |
| Power Management Software | PowerPanel Business | | | | | |
| PHYSICAL | | | | | | |
| Dimension (mm) | W x H x D = 270 x 520 x 460 | | | | | |

*The load capacity would be derated to 90% when the output voltage is adjusted to 200/208 VAC.

| Code | Item | LCD Display | Event Logs Description | Possible Cause | Solution |
|------|-------------------------|--------------------|--|--|--|
| 01 | Over Charge | 01 Over Charge | The Battery has been charged too High voltage. | Battery is overcharged. | Remove battery connector and check charger voltage. Contact CyberPower for assistance. |
| 02 | Charger Failure | 02 Chgr Failure | The Battery Charger has malfunctioned. | Charger has failed. | Remove battery connector and check charger voltage. Contact CyberPower for assistance. |
| 04 | Battery Low | 04 Battery Low | The Battery has been discharged to low level. | UPS is operating on battery power and will be shutting down soon due to extremely low battery voltage. | UPS will restart automatically when acceptable utility power returns. |
| 05 | Battery Failure | 05 Batt Failure | The UPS has detected battery failure. | UPS has failed in Battery Test. | Check battery connector and battery breaker. Contact technical support to replace the battery. |
| 06 | Battery Disconnected | 06 Batt Missing | The UPS has not detected batteries. | Missing battery power. | Check battery connector and battery breaker. |
| 07 | Service Battery | 07 Service Batt | The Battery Replacement Date has reached the maintenance period. | The Battery Replacement Date has reached the recommended 3.5 year maintenance period. | If batteries have been recently replaced, then reset the Battery Replacement Date using PowerPanel Business Agent software, RMCARD web interface or through the LCD control panel on the UPS (See LCD Configuration Settings). |

| Code | Item | LCD Display | Event Logs Description | Possible Cause | Solution |
|------|------------------------|----------------------|---|---|--|
| 12 | Load Over Set% | 12 Load Ovr Set% | The UPS has detected Output Watt or VA has exceeded user set parameter. | Your equipment requires more power than the setting in the Power Management Software (PowerPanel Business) will allow. | Shut off the non- essential equipment or increase the level in the Power Management Software. |
| 21 | Output Short | 21 Output Short | The UPS has detected output short. | Output short circuit. | Your attached equipment may have problems, please remove them and check again. |
| 22 | Output Overload | 22 O/P Overload | The UPS has detected Output Watt or VA are too High. | 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 | 25 EPO Off | The UPS has been turned off by EPO. | Missing the EPO connection. | Check the EPO connection. |
| 27 | ROO Off | 27 ROO Off | The UPS has been turned off by ROO. | Missing the ROO connection. | Check the ROO connection. |
| 30 | Inverter Fault | 30 lnv Fault | The inverter has malfunctioned. | Inverter has failed. | Shut down UPS and turn off input breaker. Contact CyberPower for assistance. |
| 31 | High Output Voltage | 31 High O/P Volit | The UPS has detected Inverter voltage too High. | Inverter voltage is too high. | Shut down UPS and turn off the input breaker. Contact CyberPower for assistance. |
| 32 | Low Output Voltage | 32 Low O/P Volt | The UPS has detected Inverter voltage too Low. | Inverter voltage is too low. | Shut down UPS and turn off the input breaker. Contact CyberPower for assistance. |

| Code | Item | LCD Display | Event Logs Description | Possible Cause | Solution |
|------|--------------------------|---------------------|--|--|---|
| 33 | Over Temperature | 33 Over Temp. | The UPS has detected internal temperature too High. | High temperature sensor activates protection. | Check the fan for operation and if the ventilation hole has been covered. |
| 34 | Fan Error | 34 Fan Error | The UPS has detected a fan malfunction. | Internal Fan has failed. | Perform a Fan Test and check the Alarm. If the Alarm continues, Shut down UPS and turn off the input breaker. Contact CyberPower for assistance. |
| 41 | BUS Fault High | 41 BUS High | The UPS has detected DC Bus too High . | Internal DC bus voltage is too High. | Shut down UPS and turn off the input breaker. Contact CyberPower for assistance. |
| 42 | BUS Fault Low | 42 BUS Low | The UPS has detected DC Bus too Low. | Internal DC bus voltage is too low. | Shut down UPS and turn off the input breaker. Contact CyberPower for assistance. |
| 40 | BUS Fault (Unbalance) | 40 BUS Unbalance | The UPS has detected DC Bus too High or Low. | Internal DC bus voltage is too high or too low. | Shut down UPS and turn off the input breaker. Contact CyberPower for assistance. |
| 50 | Input Power Fail | 50 I/P PowerFail | The UPS has detected input voltage or frequency out of range. | Utility power is out of range. | Check whether voltage or frequency of utility power is out of range. |
| 51 | Bypass Out Of Range | 51 Byp Out Range | The UPS has detected bypass voltage or frequency out of range. | Utility power is out of bypass range. | Check whether voltage or frequency of utility power is out of bypass range. |
| 54 | Line Abnormal | 54 Line Abnormal | The UPS has detected the utility is out of range when the UPS is running auto-restart process. | Utility power is out of range for the UPS to autorestart. | Check whether voltage or frequency of utility power is out of range. |

| Code | Item | LCD Display | Event Logs Description | Possible Cause | Solution |
|------|----------------------------------|-------------------------|--|---|---|
| UO | Manual Bypass | UO MANUAL BYPASS | The UPS is operating on manuay bypass status. | The manual bypass setting is enabled. | The manual bypass setting is enabled through the LCD control panel.(See LCD Configuration Settings) |
| U1 | EEPROM Fail | U1 EEPROM Fail | EEPROM Fail | EEPROM Fail | Shut down UPS and turn off the input breaker until the UPS complete shutdown (Fan Stop). Turn on the input breaker and recheck the UPS condiction. If the UPS still has Eeprom fail warning, please contact CyberPower for assistance. |
| U2 | ADC Fail | U2 ADC Fail | The UPS has detected internal sensors fail. | The UPS has detected internal sensors fail. | Shut down UPS and turn off the input breaker. Contact CyberPower for assistance. |
| U3 | Line out of Eco mode Range | U3 Out Eco Range | The Eco mode setting is enabled and the utility is out of Eco mode range. | Utility power is out of range for the Eco mode. | Check whether voltage or frequency of utility power is out of Eco mode range. |
| U4 | Turn On Abnormal | U4 SWOn Abnormal | The UPS has detected the utility is out of range when the UPS is runing UPS turn on process. | Utility power is out of range for the UPS turn on process. | Check whether voltage or frequency of utility power is out of range. |
| U5 | Parallel cable Loss | U5 ParaCable Loss | The UPS has detected the wiring abnormal of Parallel connection. | Wiring abnormal of Parallel connection. | Make sure the Parallel Cable wiring is correct. |
| U6 | WIRING Fail | U6 WIRING Fail | The UPS has detected the wiring abnormal of the input wiring (L-N-G). | The input wiring error. | Make sure the input wiring is correct. |

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