



TECHNOLOGIES

0E-825V12VRD User's Manual

K01-1101016-01

IMPORTANT SAFETY INSTRUCTIONS

(SAVE THESE INSTRUCTIONS)

This manual contains important instructions that should be followed during installation and maintenance of the UPS and batteries. Please read and follow all instructions carefully during installation and operation of the unit. Read this manual thoroughly before attempting to unpack, install, or operate.

CAUTION! 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).

CAUTION! To reduce the risk of electric shock, do not remove the cover except to service the battery. Turn off and unplug the unit before servicing the batteries. There are no user serviceable parts inside except for the battery.

CAUTION! Hazardous live parts inside can be energized by the battery even when the AC input power is disconnected.

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

CAUTION! To avoid electric shock, turn off the unit and unplug it from the AC power source before servicing the battery or installing a computer component.

CAUTION! Not for use in a computer room as defined in the Standard for the Protection of Electronic Computer/Data Processing Equipment, ANSI/NFPA 75.

CAUTION! To reduce the risk of fire, connect only to a circuit provided with 20 amperes maximum branch circuit over current protection in accordance with the National Electric Code, ANSI/NFPA 70.

CAUTION! DO NOT USE FOR MEDICAL OR LIFE SUPPORT EQUIPMENT! ADI does not sell UPS products for life support or medical applications. **DO NOT** use in any circumstance that would affect the operation and safety of life support equipment, medical applications, or patient care.

CAUTION! DO NOT USE WITH OR NEAR AQUARIUMS! To reduce the risk of fire or electric shock, do not use with or near an aquarium. Condensation from the aquarium can cause the unit to short out.

CAUTION! DO NOT USE THE UPS ON ANY TRANSPORTATION! To reduce the risk of fire or electric shock, do not use the unit on any transportation such as airplanes or ships. The effect of shock or vibration caused during transit and the damp environment can cause the unit to short out.

WARNING! This product can expose you to chemicals including Styrene, and Bisphenol-A, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

INSTALLING YOUR UPS SYSTEM

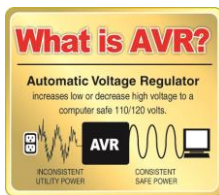
UNPACKING

Inspect the UPS upon receipt. The box should contain the following:

- (a) UPS unit (b) User's manual (c) USB device cable (d) Software download card

AUTOMATIC VOLTAGE REGULATOR

The 0E-825V12VRD stabilizes inconsistent utility power to nominal levels that are safe for equipment. Unstable utility power can be damaging to important data and hardware. With Automatic Voltage Regulation (AVR), damaging voltage levels are corrected to safe levels. AVR automatically increases low utility power to a consistent and safe 110/120 volts.

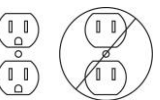
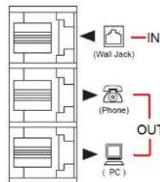
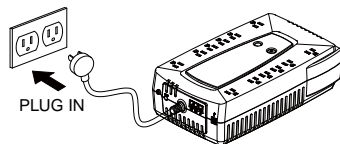


HOW TO DETERMINE THE POWER REQUIREMENTS OF YOUR EQUIPMENT

- Ensure that the equipment plugged into the UPS does not exceed the UPS unit's rated capacity. If the rated capacities of the unit are exceeded, an overload condition may occur and cause the UPS unit to shut down or the circuit breaker to trip.
- There are many factors that can affect the amount of power that your electronic equipment will require. For optimal system performance keep the load below 80% of the unit's rated capacity.

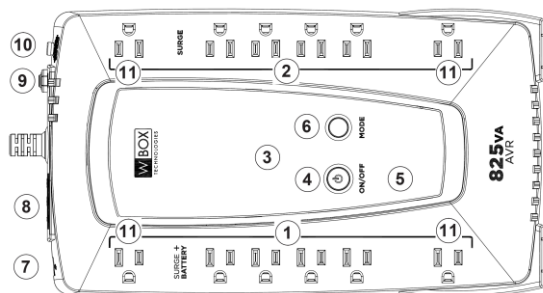
HARDWARE INSTALLATION GUIDE

- Your new UPS may be used immediately upon receipt. However, after receiving a new UPS, to ensure the battery's maximum charge capacity, it is recommended that you charge the battery for at least 8 hours. Your UPS is equipped with an auto-charge feature. When the UPS is plugged into an AC outlet, the battery will automatically charge whether the UPS is turned on or turned off.
- With the UPS unit turned off and unplugged, connect your computer, monitor, and any other peripherals requiring battery backup into the battery power supplied outlets. Plug the other peripheral equipment (eg. printer, scanner, speakers, etc.) into the full-time surge protection outlets. **DO NOT plug a laser printer, paper shredder, copier, space heater, vacuum cleaner, sump pump, or other large electrical device into the "Battery and Surge Protected Outlets". The power demands of these devices will overload and possibly damage the unit.**
- To protect a fax, phone, or modem line, connect a telephone cable from the wall jack outlet to the IN jack of the UPS. Connect a telephone cable from one of the UPS OUT jacks to the modem port on the computer. The other UPS OUT jack can be used to protect a telephone or fax machine.
- Plug the UPS into a 2 pole, 3 wire grounded receptacle (wall outlet). Make sure the wall branch outlet is protected by a fuse or circuit breaker and does not service equipment with large electrical demands (e.g. air conditioner, refrigerator, copier, etc.). The warranty prohibits the use of extension cords, outlet strips, and surge strips in conjunction with the UPS unit.
- Press the power switch to turn the unit on. The Power On indicator light will illuminate green and the unit will "beep" once.
- If an overload is detected, an audible alarm will sound and the unit will emit one long beep. To correct this, turn the UPS off and unplug at least one piece of equipment from the battery power supplied outlets. Make sure the circuit breaker is depressed and then turn the UPS on.
- To maintain optimal battery charge, leave the UPS plugged into an AC outlet at all times.
- To store the UPS for an extended period of time, cover it and store with the battery fully charged. While in storage, recharge the battery every three months to ensure optimal battery life.
- Ensure the wall outlet and UPS are located near the equipment being attached for proper accessibility.



BASIC OPERATION

DESCRIPTION



- Battery and Surge Protected Outlets**
The UPS has six battery powered and surge protected outlets to ensure temporary uninterrupted operation of your equipment during a power failure. **(DO NOT plug a laser printer, paper shredder, copier, space heater, vacuum cleaner, sump pump, or other large electrical device into the "Battery and Surge Protected Outlets." The power demands of these devices will overload and possibly damage the unit.)**
- Full-Time Surge Protection Outlets**
The UPS has six surge suppression outlets.
- LCD module display**
LCD display shows all the UPS information using icons and messages. For more information please review the "Definitions for Illuminated LCD Indicators" section.

4. Power Switch

To turn the UPS ON, press the power button for approximately 2 seconds - you will hear a constant tone (1 second) - and release after a short beep.

To turn the UPS OFF, press the power button for approximately 2 seconds - you will hear a constant tone (1 second) - and release after two short beeps.

Alarm setting: The audible alarm can be turned **Off** or **On** by quickly pressing the POWER button twice. The default setting is for the Alarm On. To turn the Alarm Off, quickly press the power button twice. You will hear two short beeps when the Alarm is turned Off. To turn the Alarm back On, quickly press the power button twice. You will hear a single short beep when the Alarm is turned On. *When the Alarm is turned Off, there will be no audible notification when the UPS reaches a low battery state.

5. Power On Indicator

This LED is illuminated when the utility power is normal and the UPS outlets are providing power, free of surges and spikes.

6. Mode Switch

Press the Mode Switch for approximately 3 seconds to enter setup mode to select three functions: Utility High Voltage Range, Utility Low Voltage Range, and LCD sleep ON/OFF. When a function is selected, press Mode Switch for 3 seconds to view options. When an option is selected, wait for 8 seconds for the setting to be confirmed. After the setting has been confirmed the LCD screen will leave setup mode and go back to status display. If there is no action for 8 seconds during setup, the LCD will also leave setup mode and go back to the status display.

- Utility High Voltage Range: Adjust the value of high voltage range.
- Utility Low Voltage Range: Adjust the value of low voltage range.
- LCD: L1/L0 (ON/OFF):

* When LCD is set to L1, LCD will be always ON. When LCD is set to L0, LCD will dim if untouched for 1 minute.

* In battery mode, LCD is always on regardless if the setting is L1 or L0.

7. USB Port

The USB port allows connection and communication between the USB port on the computer and the UPS unit.

8. Communication Protection Ports

Communication protection ports will protect any standard modem, fax, or telephone line. (RJ11)

9. Circuit Breaker

Located on the side of the UPS, the circuit breaker provides overload and fault protection.

10. Ground Screw

The ground screw is used for any equipment that needs a chassis ground connection.

11. Outlets Designed for AC Adapters

The UPS unit has four widely-spaced outlets. AC power adapters can be plugged into the UPS without overlapping or blocking adjacent outlets.

REPLACING THE BATTERY

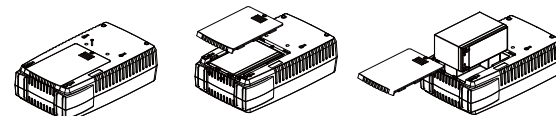
Replacement of batteries located in an **OPERATOR ACCESS AREA**.

- When replacing batteries, replace with the same number of the following battery: BB / HRC1234W or LEOCH / DJW12-9 for 0E-825V12VRD.
- CAUTION!** Risk of Energy Hazard, 12V, maximum 9 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.
- CAUTION!** Do not dispose of batteries in a fire. The batteries may explode.
- CAUTION!** Do not open or mutilate batteries. 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 LOCAL REGULATIONS.

TO REPLACE THE BATTERY

- Turn off and unplug all connected equipment.
- Unplug it from the AC power source.
- Turn the UPS upside down.
- Remove the 1 retaining screw.
- Slide the battery compartment cover completely off of the unit.
- Remove the battery from the compartment.
- Disconnect the battery wires from the battery.
- Install the replacement battery by connecting the red wire and black wire to the positive (+) and negative (-) terminal of the battery.
- Put the battery back into the compartment.
- Slide back the battery compartment cover and tighten the retaining screw.
- Charge the unit for 8 hours to fully charge the battery.



REMINDER: Batteries are considered **HAZARDOUS WASTE** and must be disposed of properly. Most retailers that sell lead-acid batteries collect used batteries for recycling, as required by local regulations.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Full-time surge protection outlets stop providing power to equipment. Circuit breaker button is projecting from the side of the unit.	Circuit breaker has been tripped due to an overload.	Turn the UPS off and unplug at least one piece of equipment. Wait 10 seconds, reset the circuit breaker by pressing the button, and then turn the UPS on.
The UPS does not perform expected runtime.	Battery not fully charged.	Recharge the battery by leaving the UPS plugged in.
	Battery is worn out.	Contact ADI/W Box Technologies US 1-800-233-6261; Canada 877-234-7378; PR 787-793-8830
The UPS will not turn on.	The on/off switch is designed to prevent damage from rapidly turning it off and on.	Turn the UPS off. Wait 10 seconds and then turn the UPS on.
	The unit is not connected to an AC outlet.	The unit must be connected to a 120V 60Hz outlet.
	The battery is worn out.	Contact ADI/W Box Technologies US 1-800-233-6261; Canada 877-234-7378; PR 787-793-8830
	Mechanical problem.	Contact ADI/W Box Technologies US 1-800-233-6261; Canada 877-234-7378; PR 787-793-8830
Downloadable power management software is inactive (all icons are gray).	The frequency is outside of the operating range of 57-63Hz.	Turn the UPS off. Make sure the frequency range is within 57-63Hz. Or you can turn the UPS on in battery mode.
	The USB cable is not connected.	Connect the USB cable to the UPS unit and an open USB port on the back of the computer.
	The USB cable is connected to a bad USB port.	Check for a different USB port and plug the cable in.
The unit is not providing battery power.		Shutdown your computer and turn the UPS off. Wait 10 seconds and turn the UPS back on. This should reset the unit.

DEFINITIONS FOR LED INDICATORS & AUDIBLE ALARMS

Power	Alarm	CONDITION
On	Off	Normal
On	Beeps twice every 30 seconds	Utility Failure- The UPS is providing power to battery power-supplied outlets from its battery.
On	Rapid beeping every 1/2 second	Utility Failure- The UPS is providing battery power. Rapid beeping indicates the unit will run out of power soon.

On/Off	Constant tone	Battery Mode or AC/Utility Power Mode Overload Fault- Occurs when connected equipment exceeds the rating of battery outlets of the unit. Please unplug at least one piece of equipment from battery outlets.
Off	Constant tone	Battery Output Short Fault- Please unplug at least one piece of equipment from battery outlets and turn on the UPS again. If the fault still exists, please contact CyberPower Systems for support.
On	Constant tone	Charger Fault- Contact ADI/W Box Technologies US 1-800-233-6261; Canada 877-234-7378; PR 787-793-8830

DEFINITIONS FOR ILLUMINATED LCD INDICATORS

INPUT voltage meter: This meter measures the AC voltage that the UPS system is receiving from the utility wall outlet. The UPS is designed to continuously supply connected equipment with stable output voltage. In the event of a complete power loss, severe brownout, or over-voltage, the UPS relies on its internal battery to supply consistent 110/120 output voltage. The INPUT voltage meter can be used as a diagnostic tool to identify poor-quality input power.



The LCD display indicates a variety of UPS operational conditions. All descriptions apply when the UPS is plugged into an AC outlet and turned on or when the UPS is on battery.

OUTPUT voltage meter: This meter measures, in real time, the AC voltage that the UPS system is providing to the computer during normal AC/Utility Power mode, and battery backup mode.

ESTIMATED RUNTIME: This displays the run time estimate of the UPS with the current battery capacity and load.

NORMAL icon: This icon appears when the UPS is working under normal conditions.

BATTERY icon: During a severe brownout or blackout, this icon appears and an alarm sounds (two short beeps followed by a pause) to indicate the UPS is operating from its internal batteries. During a prolonged brownout or blackout, the alarm will sound continuously to indicate the UPS's batteries are nearly out of power. You should save files and turn off your equipment immediately or allow the software to shut the system down.

OVER LOAD icon: This icon appears and an alarm sounds to indicate the battery-supplied outlets are overloaded. To clear the overload, unplug some of your equipment from the battery-supplied outlets until the icon turns off and the alarm stops.

BATT. CAPACITY meter: This meter displays the approximate charge level of the UPS's internal battery in 20% increments. During a blackout or severe brownout, the UPS switches to battery power (the BATTERY icon appears) and the battery charge level decreases.

LOAD CAPACITY meter: This meter displays the approximate output load level of the UPS battery outlets in 20% increments.

FAULT: The following number appears if there is a problem with the UPS. Press the POWER button to turn the UPS off.

E22: Battery Mode or AC/Utility Power Mode Overload fault (Unplug at least one piece of equipment from battery outlets and turn the UPS on again.)

E21: Battery Output Short fault (Unplug at least one piece of equipment from battery outlets and turn the UPS on again.)

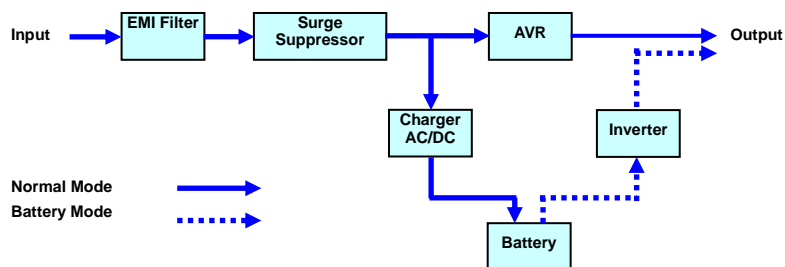
E01: Charger Fault (Contact ADI/W Box Technologies US 1-800-233-6261; Canada 877-234-7378; PR 787-793-8830)

E24: Internal Fault (Contact ADI/W Box Technologies US 1-800-233-6261; Canada 877-234-7378; PR 787-793-8830)

TECHNICAL SPECIFICATIONS

Model	0E-825V12VRD
Capacity	825VA / 480W
Nominal Input Voltage	120Vac
Input Frequency	60 Hz \pm 3 Hz
On-Battery Output Voltage	120Vac \pm 5%
Automatic Voltage Regulator (AVR)	Yes
On-Battery Output Frequency	60Hz +/- 1%
Max. Load for UPS Outlets	825VA / 480W
Max. Load for Full-Time Surge Protection outlets	12 Amps
On-Battery Output Wave Form	Simulated Sine Wave Form
Operating Temperature	+ 32°F to 104° F / 0° C to 40° C
Operating Relative Humidity	0 to 90% NON-CONDENSING
Size (W x H x D)	12.2" x 7" x 3.5"
Net Weight	13.9 lbs
Typical Battery Recharge Time	8 hours typical from total discharge
Typical Battery Life	3 to 6 years, depending on number of discharge/recharge cycles
Recommended Battery	Sealed Maintenance Free Lead Acid Battery
Safety Approvals	UL1778(UPS), cUL107., FCC/DoC Class B

SYSTEM FUNCTION BLOCK DIAGRAM



Limited Warranty and Connected Equipment Guarantee

1. Limited Warranty

a. General

Subject to the terms and conditions of this Limited Warranty, from the date of sale through the period of time for product categories specified in Section 1(b), ADI warrants its W Box Technologies products to be free from defects in materials and workmanship under normal use and service, normal wear and tear excepted. Except as required by law, this Limited Warranty is only made to Buyer and may not be transferred to any third party.

ADI shall have no obligation under this Limited Warranty or otherwise if:

- The product is improperly installed, applied or maintained;
- The product is installed outside of stated operating parameters, altered, or improperly serviced or repaired;
- Damage is caused by outside natural occurrences, such as lightning, power surges, fire, floods, acts of nature, or the like.
- Defects resulting from unauthorized modification, misuse, vandalism, or other causes unrelated to defective materials or workmanship, or failures related to batteries of any type used in connection with the products sold hereunder.

ADI only warrants those products branded as W Box Technologies products and sold by ADI. Any other products branded by third parties are warranted by the third party manufacturer for a period as defined by the third party manufacturer, and ADI assigns to Buyer those warranties and only those warranties extended by such third party manufacturers or vendors for non-ADI branded products. ADI does not itself warrant any non-ADI branded product and sells only on an as is basis in accordance with ADI's terms and conditions of sale.

b. Specific Warranties for product categories are as follows:

Product Categories	Warranty Period
Soundbars	12 months
UPS (uninterruptible power supplies)	24 months
Analog Cameras	24 months
CCTV Power Supplies	24 months
Volume Controls	24 months
Surge Protection	24 months
In Ceiling Speakers	24 months
Monitors	30 months
Video Baluns	30 months
Intrusion Audio Devices	30 months
Magnetic Locks	36 months
Racks	60 months
TV Mounts	60 months
HDMI Cables	Limited Lifetime
Wire Ties	Limited Lifetime
Analog Cables	Limited Lifetime
Patch Cables	Limited Lifetime
Bus Terminals	Limited Lifetime
B Connectors	Limited Lifetime
Extension Cords	Limited Lifetime

2. EXCLUSION OF WARRANTIES, LIMITATION OF LIABILITY

THERE ARE NO WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. TO THE FULLEST EXTENT PERMITTED BY LAW, IN NO CASE SHALL ADI BE LIABLE TO ANYONE FOR ANY (I) CONSEQUENTIAL, INCIDENTAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES ARISING OUT OF OR RELATING IN ANY WAY TO THE PRODUCT AND/OR FOR BREACH OF THIS OR ANY OTHER WARRANTY OR CONDITION, EXPRESS OR IMPLIED, OR UPON ANY OTHER BASIS OF LIABILITY WHATSOEVER, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY ADI'S OWN NEGLIGENCE OR FAULT AND EVEN IF ADI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH LOSSES OR DAMAGES. Any product description (whether in writing or made orally by ADI or ADI's agents), specifications, samples, models, bulletin, drawings, diagrams, engineering sheets, or similar materials used in connection with the Buyer's order are for the sole purpose of identifying ADI's products and shall not be construed as an express warranty or condition. Any suggestions by ADI or ADI's agents regarding use, applications or suitability of the products shall not be construed as an express warranty or condition unless confirmed to be such in writing by ADI. ADI does not represent that the products it sells may not be compromised or circumvented; that the products will prevent any personal injury or property loss by burglary, robbery, fire or otherwise, or that the products will in all cases provide adequate warning or protection. Buyer understands and will cause its customer to understand that a properly installed and maintained product is not insurance or guarantee that such will not cause or lead to personal injury or property loss. CONSEQUENTLY ADI SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE OR OTHER LOSS BASED ON ANY CLAIM AT ALL INCLUDING A CLAIM THAT THE PRODUCT FAILED TO GIVE WARNING. However, if ADI is held liable whether directly or indirectly for any loss or damage with respect to the products it sells, regardless of cause or origin, its maximum liability shall not in any case exceed the purchase price of the product, which shall be fixed as liquidated damages and not as a penalty and shall be the complete and exclusive remedy against ADI.

3. Limitation on Liability to Buyer's Customers.

Buyer agrees to limit liability to its customers to the fullest extent permitted by law. Buyer acknowledges that ADI shall only be deemed to give consumers of its products such statutory warranties as may be required by law and at no time shall Buyer represent to its customers and/or users of ADI products that ADI provides any additional warranties. By accepting the products, to the fullest extent permitted by law, Buyer assumes all liability for, and agrees to indemnify and hold ADI harmless against and defend ADI from, any and all suits, claims, demands, causes of action and judgments relating to damages, whether for personal injury or to personal property, suffered by any person, firm, corporation or business association, including but not limited to, Buyer's customers and/or users of the products because of any failure of the products to detect and/or warn of the danger for which the goods were designed or any other failure of the products whether or not such damages are caused or contributed to by the sold or joint concurring negligence or fault of ADI.

4. Returns

Subject to the terms and conditions listed below, during the applicable warranty period, ADI will replace Product or provide a credit at purchase at its sole option free of charge any defective products returned prepaid. Any obligations of ADI to replace Limited Lifetime warranty products pursuant to this warranty which result from defect are limited to the availability of replacement product. ADI reserves the right to replace any such products with the then currently available products, or provide a credit in its sole discretion. In the event Buyer has a problem with any ADI product, please call your local ADI branch for return instructions:

For US call 1-800-233-6261

For Canada call 877-234-7378

For Puerto Rico call 787-793-8830

Be sure to have the model number and the nature of the problem available. In the event of replacement, the return product will be credited to Buyer's account and a new invoice issued for the replacement item. ADI reserves the right to issue a credit only in lieu of replacement.

If any W Box Technologies product is found to be in good working order or such product's inability to function properly is a result of user damage or abuse, the product will be returned to Buyer in the same condition as received and Buyer shall be responsible for any return freight charges.

5. Governing Law

The laws of State of New York apply to this Limited Warranty.

6. Miscellaneous

Where any term of this Limited Warranty is prohibited by such laws, it shall be null and void, but the remainder of the Limited Warranty shall remain in full force and effect.

Connected Equipment Guarantee

How Do You Open A Connected Equipment Claim?

- For Connected Equipment Guarantee claims, contact CyberPower Systems at (877) 297-6937 or write to Cyber Power Systems (USA), Inc., 4241 12th Ave. E., STE 400, Shakopee, MN 55379, or send an e-mail message at claims@cpsww.com for instructions, within 10 days of the occurrence.
- When you contact CyberPower, identify the Product, the Purchase Date, and the item(s) of Connected Equipment. Have information on all applicable insurance or other resources of recovery/payment that are available to the Initial Customer and Request a Claim Number.
- You must provide a dated purchase receipt (or other proof of the original purchase) and provide a description of the damage to your connected equipment.
- Pack and ship the product to CyberPower and, if requested, the item(s) of Connected Equipment, a repair cost estimate for the damage to the Connected Equipment, and all claim forms that CyberPower provides to you. Show the Claim Number on the shipping label or include it with the product. **You must prepay all shipping costs, you are responsible for packaging and shipment, and you must pay the cost of the repair estimate.**

How Long Do I Have To Make A Claim?

All claims must be made within ten days of the occurrence.

What Will CyberPower Do To Correct Problems?

CyberPower will inspect and examine the Product.

If it appears the UPS failed to protect any equipment plugged into it, CyberPower will send you forms for making your claim for the connected equipment. CyberPower will repair or replace the equipment that was damaged because of the failure of the UPS or pay you the fair market value (NOT REPLACEMENT COST) of the equipment at the time of the damage. CyberPower uses Orion Blue Book, or other a third-party valuation guides, or eBay, craigslist, or other source to establish that amount. The maximum liability is limited to \$200,000 for the 0E-825V12VRD.

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