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## Model #: ECO650LCD

### ECO 650VA Energy-saving 120V Standby UPS with Enhanced LCD interface and USB monitoring port

#### Highlights



- 650VA ultra-compact 120V standby UPS, LCD status and control display
- Maintains AC output during power failures, 99% line mode efficiency
- ECO option turns off set of three outlets when the computer is not in use
- USB port, TEL/DSL protection, Wall mountable, Surge-only outlets
- NEMA 5-15P input plug and 8 NEMA 5-15R outlets
- **This product is ENERGY STAR qualified for its ability to save customers money while helping to protect the environment**

#### Description

The ECO650LCD ultra-compact green UPS offers complete protection from blackouts, voltage fluctuations and transient surges. Interactive LCD user interface offers detailed UPS and site electrical data, including input/output voltage, estimated runtime remaining, load percentage, load wattage and battery charge level. Energy saving ECO outlets give users the option to automatically power off unused desktop accessories like a printer and audio speakers as the computer connected via USB goes to low-power sleep or shutdown modes. 99% full load efficiency rating offers energy savings and cool operating temperatures. Green eco-friendly design meets strict RoHS environmental standards. Provides uninterruptible transfer to battery derived AC output during power failures and voltage fluctuations with enough runtime to save and shutdown connected equipment without data loss. Space saving, ultra-compact desktop or wall mount compatible housing. Includes 4 battery supported outlets for computer, monitor and two vital system accessories, plus 4 additional surge suppression-only outlets for accessories not requiring battery support. Three surge-only outlets marked "ECO" can be configured to automatically power-off within 3 minutes of the connected computer entering sleep or shutdown mode. USB port monitors computer power status for ECO power savings and enables direct integration with built-in power management and auto-shutdown features of Windows and Mac OS X. PowerAlert software is also available via free download from [www.tripplite.com](http://www.tripplite.com) to provide advanced auto-shutdown, UPS monitoring and data saving options. USB cable included. Built-in single line RJ11 phone suppression protects modem, fax machine, cordless phone or other accessories with a dial-up/DSL phone connection. Built-in interactive LCD screen offers continuous power and UPS status information. Audible alarm warns of power failure conditions. Self-test, display brightness, alarm disable and LCD information display scrolling options are controllable via interactive LCD user interface. 650VA / 325 watt UPS capacity supports entry-level PC systems for up to 17 minutes during power fail conditions. \$100,000 connected equipment insurance (USA, Puerto Rico, & Canada Only).

#### Package Includes

- ECO650LCD UPS System
- USB cable
- Instruction manual

#### Features

- ECO650LCD power saving, green UPS offers complete protection from blackouts, voltage fluctuations and transient surges
- Interactive LCD user interface with scroll and select buttons offer detailed UPS status and control options
- LCD screen options support continuous display of Input voltage, Output voltage, Estimated runtime, Load percentage, Load wattage and Battery charge percentage - with the option to continuously scroll all six information fields
- LCD screen with scroll and select functions also gives users the ability to enable and disable specific UPS features, such as the ECO energy-saving feature, permanent alarm silence, LCD brightness, information display scroll functions and UPS self-test operation
- Set of 3 optional ECO outlets automatically power off unnecessary computer accessories like a printer, scanner and audio speakers three minutes after computer enters sleep or shutdown mode
- Full load efficiency rating of 99% saves energy and ensures cool operating temperatures
- ECO650LCD emits only 17 BTU/hr. and consumes less than 4 watts once the battery is charged
- Eco-friendly design meets strict RoHS (Restriction of Hazardous Substances) environmental standards
- 650VA / 325 watts provides battery-derived AC output during power failures and severe voltage fluctuations to support an entry level desktop computer up to 17 minutes

- Ultra compact UPS supports a variety of placement options for desktop or wall mount installation
- Includes 4 UPS supported outlets for computer, monitor and two additional vital system peripherals requiring continuous power
- Includes 4 Surge-only outlets for accessories not requiring battery support
- Three of the Surge-only outlets are designated ECO outlets that can be configured to automatically power-off three minutes the connected computer enters low power standby or shutdown mode
- USB port monitors computer power status for ECO power savings and enables direct integration with built-in power management and auto-shutdown features of Windows and Mac OS X
- PowerAlert software is also available via free download from [www.tripplite.com](http://www.tripplite.com) to provide advanced auto-shutdown, UPS monitoring and data saving options
- Single line RJ11 phone suppression jacks protect modem, fax machine, cordless phone or other accessories from surges on dial-up/DSL phone connections
- USB cable included
- Space-saving right angle input plug
- \$100,000 connected equipment insurance (USA, Puerto Rico and Canada only)

## Specifications

<b>OUTPUT</b>	
<b>Output Volt Amp Capacity (VA)</b>	650
<b>Output Watt Capacity (watts)</b>	325
<b>Nominal Output Voltage(s) Supported</b>	115V; 120V
<b>Frequency compatibility</b>	60 Hz
<b>Output voltage regulation (Battery mode)</b>	115V (+/- 5%)
<b>Built-in UPS output receptacles</b>	8 5-15R outlet(s)
<b>Surge suppression only outlets</b>	4 UPS outlets, 4 surge-only outlets
<b>Output AC waveform (AC mode)</b>	Sine wave
<b>Output AC waveform (battery mode)</b>	PWM sine wave
<b>INPUT</b>	
<b>Rated input current (at maximum load)</b>	10A
<b>Nominal Input Voltage(s) Supported</b>	120V AC
<b>UPS input connection type</b>	5-15P; Right-Angled
<b>Input circuit breaker</b>	10A
<b>UPS Input cord length (ft.)</b>	6
<b>UPS Input cord length (m)</b>	1.8
<b>Recommended Electrical Service</b>	15A 120V

<b>Phase</b>	Single-Phase
<b>BATTERY</b>	
<b>Full load runtime (minutes)</b>	3 min. (325w)
<b>Half load runtime (minutes)</b>	9.6 min. (160w)
<b>DC system voltage (VDC)</b>	12
<b>LEDS ALARMS &amp; SWITCHES</b>	
<b>Front panel LCD display</b>	Front panel LCD reports Input voltage, Output voltage, Estimated runtime, Load percentage, Load wattage and Battery charge percentage; Also supports configuration of ECO energy-saving feature, alarm silence mode, LCD brightness, information display scrolling and UPS self-test operation
<b>Alarms</b>	Audible alarm indicates power-failure and overload status
<b>Alarm cancel operation</b>	Alarm-cancel switch temporarily silences alarm during a power failure; Silent-alarm mode setting is available as an LCD settable option
<b>Switches</b>	Set of two switches offers complete UPS control; ON / OFF / MODE switch offers UPS power off/on control and LCD screen mode selection; MUTE / SELECT button momentarily silences alarm during a power failure and value selection for LCD interface options
<b>SURGE / NOISE SUPPRESSION</b>	
<b>UPS AC suppression joule rating</b>	420
<b>UPS AC suppression response time</b>	Instantaneous
<b>UPS Dataline suppression</b>	1 line TEL/DSL (1 in / 1 out)
<b>EMI / RFI AC noise suppression</b>	Yes
<b>PHYSICAL</b>	
<b>Installation form factors supported with included accessories</b>	Tower; Ultra-compact desktop
<b>Primary form factor</b>	Desktop
<b>UPS / Power Module dimensions in primary form factor (height x width x depth / inches)</b>	3.5 x 10.75 x 5.75
<b>UPS / Power Module dimensions in primary form factor (height x width x depth / cm)</b>	8.9 x 27.3 x 14.6
<b>UPS / Power Module weight (lbs)</b>	6.25
<b>UPS / Power Module weight (kg)</b>	2.8
<b>UPS Shipping dimensions (height x width x depth / inches)</b>	4.25 x 13 x 8

<b>UPS Shipping dimensions (height x width x depth / cm)</b>	10.8 x 33 x 20.3
<b>Shipping weight (lbs)</b>	7
<b>Shipping weight (kg)</b>	3.2
<b>UPS housing material</b>	Plastic
<b>ENVIRONMENTAL</b>	
<b>Operating Temperature Range</b>	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
<b>Storage Temperature Range</b>	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius
<b>Relative Humidity</b>	0 to 95%, non-condensing
<b>AC mode BTU / hr. (full load)</b>	17
<b>COMMUNICATIONS</b>	
<b>Communications interface</b>	USB (HID enabled)
<b>PowerAlert software</b>	Free download from <a href="http://www.tripplite.com">www.tripplite.com</a>
<b>Communications cable</b>	USB interface cable included
<b>WatchDog compatibility</b>	Supports Watchdog application, OS and hard-reboot restart options for remote applications
<b>LINE / BATTERY TRANSFER</b>	
<b>Transfer time</b>	AC to battery mode: 6 milliseconds / Battery to AC mode: 3 milliseconds
<b>Low voltage transfer to battery power (setpoint)</b>	99
<b>High voltage transfer to battery power (setpoint)</b>	139
<b>SPECIAL FEATURES</b>	
<b>Cold Start (startup in battery mode during a power failure)</b>	Cold-start operation supported
<b>Green &amp; high efficiency features</b>	Greater than 95% efficiency - GREEN UPS; Power saving auto-shutoff ECO outlets
<b>CERTIFICATIONS</b>	
<b>UPS Certifications</b>	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category B (EMI); Meets FCC Part 68 / Industrie Canada (telecommunications); ROHS (Restriction of Hazardous Substances); ENERGY STAR Qualified
<b>WARRANTY</b>	
<b>Product Warranty Period (U.S. &amp; Canada)</b>	3-year limited warranty
<b>Product Warranty Period (International)</b>	2-year limited warranty
<b>Product Warranty Period (Mexico)</b>	3-year limited warranty

<b>Product Warranty Period (Puerto Rico)</b>	3-year limited warranty
<b>Connected Equipment Insurance (U.S., Canada &amp; Puerto Rico)</b>	\$100,000 <a href="#">Ultimate Lifetime Insurance</a>

## Related Items

### Optional Products

Related Model	Description	Qty.
<a href="#">WEXT5-INTERNET</a>	5-Year Extended Warranty - For Internet Office, AVR and ECO Series UPS Systems	1
<a href="#">P007-002</a>	2-ft. Heavy-Duty 14AWG Power cord (IEC-320-C13 to NEMA 5-15P)	1
<a href="#">P007-006</a>	6-ft. Heavy-Duty 14AWG Power cord (IEC-320-C13 to NEMA 5-15P)	1
<a href="#">P007-010</a>	10-ft. Heavy-Duty 14AWG Power cord (IEC-320-C13 to NEMA 5-15P)	1
<a href="#">P010-012</a>	12-ft. 18AWG Power cord (NEMA 5-15P to IEC-320-C13)	1
<a href="#">P022-001</a>	1-ft. 18AWG Power Extension cord (NEMA 5-15R to NEMA 5-15P)	1
<a href="#">P023-001</a>	1-ft. 14AWG Power Adapter cord (NEMA L5-15R to NEMA 5-15P)	1

More information, including related products, owner's manuals, and additional technical specifications, can be found online at [www.tripplite.com/en/products/model.cfm?txtModelID=4861](http://www.tripplite.com/en/products/model.cfm?txtModelID=4861).

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