

## Smart LCD 1500VA 2U Rack/Tower Line-Interactive 120V UPS with LCD display, Expandable Runtime, USB & Serial ports

MODEL NUMBER: **SMART1500LCDXL**



### Highlights

- 1500VA / 1.5kVA 2U rack/tower 120V line interactive extended run UPS
- Corrects brownouts and overvoltages from 75V to 147V
- LCD status and configuration screen, External battery pack options
- USB, DB9 serial, TEL/DSL/ethernet protection, Rackmount kit
- NEMA 5-15P input, 8 NEMA 5-15R outlets

### Package Includes

- SMART1500LCDXL UPS system
- USB, serial & telephone cabling
- Rack/Tower mounting kit
- Owner's manual

### Description

Tripp Lite's SMART1500LCDXL Line-Interactive UPS System offers network-grade voltage regulation, surge suppression and long-lasting battery support, ideal for network equipment, phone systems, desktop PCs and home entertainment systems. Uninterruptible Power Supply / UPS system provides battery derived AC output to maintain continuous operation of connected equipment without data-loss during power failures and severe voltage fluctuations. Runtime is expandable with one additional BP24V15RT2U external battery pack. Interactive LCD display offers detailed site voltage and UPS status information, plus a variety of UPS control options. High 97% efficient line power mode operation offers reduced UPS energy consumption and BTU heat output. Automatic Voltage Regulation / AVR circuits boost brownouts and reduce overvoltages from 75V to 147V to safe 120V nominal levels without using battery power. Included mounting accessories enable 2U horizontal rackmount installation in 2 and 4 post racks or upright tower installation. Built-in USB and DB9 serial port enables optional unattended system shutdown in case of extended power failure using PowerAlert UPS management software. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Built-in data line surge suppression jacks offer protection for equipment with single-line dialup, DSL or network Ethernet connection.

### Features

- SMART1500LCDXL Line Interactive UPS offers network-grade voltage regulation, surge suppression and long lasting battery support
- Space-saving angled NEMA 5-15P input plug; 6ft / 1.8m line cord
- 8 battery-supported NEMA 5-15R outlets
- Maintains operation of connected equipment during power failures and voltage fluctuations
- Runtime is expandable with one additional BP24V15RT2U external battery pack
- LCD display reports numeric and icon-based UPS status and site power data
- Select and scroll buttons enable access to UPS control, operating and LCD display settings
- Numeric display reports Input Voltage, Output Voltage, Battery Charge Percentage, Output Load Percentage, Output Load Wattage and Estimated Minutes Runtime data
- Icon-based display items include 5 "bar" battery capacity, UPS operating status, replace battery and voltage regulation status
- Control-mode LCD options enable external battery configuration, alarm on/off control, self-test and LCD brightness
- Front-panel LCD screen rotates for horizontal or vertical installation options



- 97% line power mode efficiency operation
- Line Interactive Automatic Voltage Regulation / AVR circuits correct brownouts and overvoltages from 75 to 147V
- Included mounting accessories for 2U rackmount and tower installation
- USB and DB9 serial ports enable optional unattended system shutdown using PowerAlert UPS management software available via free download from [www.tripplite.com](http://www.tripplite.com)
- HID-compliant USB interface enable integration with built-in power management and auto shutdown features of Windows and Mac OS X
- DB9 serial port also supports contact closure signaling for on-battery and power-restored messaging
- Built-in data line surge suppression jacks offer protection for equipment with single-line dialup or PoE compatible network ethernet connection

## Specifications

| OUTPUT                                   |                                     |
|------------------------------------------|-------------------------------------|
| Output Volt Amp Capacity (VA)            | 1500                                |
| Output kVA Capacity (kVA)                | 1.5                                 |
| Output Watt Capacity (Watts)             | 900                                 |
| Nominal Output Voltage(s) Supported      | 115V; 120V                          |
| Frequency Compatibility                  | 60 Hz                               |
| Output Voltage Regulation (Line Mode)    | -18%, +8%                           |
| Output Voltage Regulation (Battery Mode) | 115V (+/- 5%)                       |
| UPS Output Receptacles                   | 8 5-15R outlet(s)                   |
| Output AC Waveform (AC Mode)             | Sine wave                           |
| Output AC Waveform (Battery Mode)        | PWM sine wave                       |
| INPUT                                    |                                     |
| Rated input current (Maximum Load)       | 8.5A                                |
| Nominal Input Voltage(s) Supported       | 120V AC                             |
| UPS Input Connection Type                | 5-15P                               |
| UPS Input Connection Description         | Space-saving right angle input plug |
| Input Circuit Breakers                   | 10A                                 |
| UPS Input Cord Length (ft.)              | 6                                   |
| UPS Input Cord Length (m)                | 1.8                                 |
| Recommended Electrical Service           | 15A 120V                            |
| Input Phase                              | Single-Phase                        |
| BATTERY                                  |                                     |
| Full Load Runtime (min.)                 | 4 min. (900w)                       |



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|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Half Load Runtime (min.)                                      | 12 min. (450w)                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| External Battery Pack Compatibility                           | BP24V15RT2U (limit 1)                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| DC System Voltage (VDC)                                       | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Battery Recharge Rate (Included Batteries)                    | Less than 4.5 hours from 10% to 90%                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>VOLTAGE REGULATION</b>                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Voltage Regulation Description                                | Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 75 to 147                                                                                                                                                                                                                                                                                                                                                         |
| Overvoltage Correction                                        | Input voltages between 128 and 147 are reduced by 12%                                                                                                                                                                                                                                                                                                                                                                                                              |
| Undervoltage Correction                                       | Input voltages between 93 and 107 are boosted by 14%                                                                                                                                                                                                                                                                                                                                                                                                               |
| Severe Undervoltage Correction                                | Input voltages between 75 and 92 are boosted by 30%                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>LEDS ALARMS &amp; SWITCHES</b>                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| LED Indicators                                                | Front panel LCD display                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Front Panel LCD Display                                       | Numeric LCD interface reports Input Voltage, Output Voltage, Battery Charge Percentage, Estimated Runtime in Minutes, Load Percentage, Load Watts; Additional LCD icons report battery charge level (5 "bars"), Line Power Mode, Battery Mode, Replace Battery and Auto-Voltage Regulation / AVR status; LCD interface control options include Alarm Disable, Display Scrolling, Initiate Self-test, LCD brightness, External Battery setting and line sensitivity |
| Audible Alarm                                                 | Audible alarm indicates power-failure and low-battery conditions; Alarm can be permanently silenced via LCD interface                                                                                                                                                                                                                                                                                                                                              |
| Alarm Cancel Operation                                        | Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-battery status                                                                                                                                                                                                                                                                                                                                      |
| Switches                                                      | 2 Switches control off/on power status and alarm-cancel/self-test operation; dimmer switch controls LCD brightness                                                                                                                                                                                                                                                                                                                                                 |
| <b>SURGE / NOISE SUPPRESSION</b>                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| UPS AC Suppression Joule Rating                               | 1038                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| UPS AC Suppression Response Time                              | Instantaneous                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| UPS Dataline Suppression                                      | 1 line TEL/DSL (1 in / 1 out); 10/100Base T Ethernet                                                                                                                                                                                                                                                                                                                                                                                                               |
| EMI / RFI AC Noise Suppression                                | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>PHYSICAL</b>                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Installation Form Factors Supported with Included Accessories | Tower                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Included Mounting Accessory Description                       | Pair of mounting ears enable tower and 2-4 post rackmount installation                                                                                                                                                                                                                                                                                                                                                                                             |
| Primary Form Factor                                           | Rackmount                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| UPS Power Module Dimensions (hwd, in.)                        | 3.5 x 17.3 x 10.5                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| UPS Power Module Dimensions (hwd, cm)                         | 8.9 x 43.8 x 26.7                                                                                                                                                                                                                                                                                                                                                                                                                                                  |



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|-------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Installed Whole System Maximum Rack Depth (in.)             | 10.5                                                                                      |
| Installed Whole System Maximum Rack Depth (cm)              | 26.7                                                                                      |
| Rack Height (U Spaces)                                      | 2U                                                                                        |
| UPS Power Module Weight (lbs.)                              | 29.4                                                                                      |
| UPS Power Module Weight (kg)                                | 13.3                                                                                      |
| UPS Shipping Dimensions (hwd / in.)                         | 7.5 x 15 x 21.5                                                                           |
| UPS Shipping Dimensions (hwd / cm)                          | 19 x 38.1 x 54.6                                                                          |
| Shipping Weight (lbs.)                                      | 33.4                                                                                      |
| Shipping Weight (kg)                                        | 15.2                                                                                      |
| Cooling Method                                              | Fan                                                                                       |
| UPS Housing Material                                        | ABS                                                                                       |
| <b>ENVIRONMENTAL</b>                                        |                                                                                           |
| Operating Temperature Range                                 | +32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius                                 |
| Storage Temperature Range                                   | +5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius                                |
| Relative Humidity                                           | 0 to 95%, non-condensing                                                                  |
| AC Mode BTU / Hr. (Full Load)                               | 78                                                                                        |
| AC Mode Efficiency Rating (100% Load)                       | 97%                                                                                       |
| <b>COMMUNICATIONS</b>                                       |                                                                                           |
| Communications Interface                                    | USB (HID enabled); DB9 Serial; Contact closure                                            |
| Network Monitoring Port Description                         | Supports detailed monitoring of UPS and site power conditions                             |
| PowerAlert Software                                         | Free download from <a href="http://www.tripplite.com">www.tripplite.com</a>               |
| Communications Cable                                        | USB and DB9 Serial cabling included                                                       |
| WatchDog Compatibility                                      | Supports Watchdog application, OS and hard-reboot restart options for remote applications |
| <b>LINE / BATTERY TRANSFER</b>                              |                                                                                           |
| Transfer Time                                               | 4 milliseconds AC to battery mode / 3 milliseconds battery to AC mode                     |
| Low Voltage Transfer to Battery Power (Setpoint)            | 75                                                                                        |
| High Voltage Transfer to Battery Power (Setpoint)           | 147                                                                                       |
| <b>SPECIAL FEATURES</b>                                     |                                                                                           |
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported                                                            |



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|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Green Energy-Saving Features                               | Greater than 95% efficiency - GREEN UPS                                                                    |
| <b>CERTIFICATIONS</b>                                      |                                                                                                            |
| UPS Certifications                                         | Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category B (EMI) |
| <b>WARRANTY</b>                                            |                                                                                                            |
| Product Warranty Period (U.S. & Canada)                    | 3-year limited warranty                                                                                    |
| Product Warranty Period (Latin America)                    | 3-year limited warranty                                                                                    |
| Product Warranty Period (International)                    | 2-year limited warranty                                                                                    |
| Product Warranty Period (Mexico)                           | 3-year limited warranty                                                                                    |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | \$250,000 <a href="#">Ultimate Lifetime Insurance</a>                                                      |

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