

### Tripp Lite 1111 W. 35th Street Chicago, IL 60609 USA Telephone: 773.869.1234 www.tripplite.com

# 1440VA 1200W Line-Interactive UPS - 8 NEMA 5-15R Outlets, AVR, 120V, 50/60 Hz, USB, LCD, Tower

# MODEL NUMBER: SMART1500TSU









Desktop UPS offers complete power protection for small network applications, including wiring closets, security systems and digital signage.

# Features

### 1440VA/1200W/120V Battery Backup for PC Networks, Security Systems or Digital Signage

The SmartPro® line-interactive SMART1500TSU UPS system with AVR protection provides reliable battery backup and AC power protection against blackouts, brownouts, overvoltages, surges and line noise that can damage valuable electronics or destroy data. The eight-outlet 120V battery backup is ideal protection for small networks, wiring closets, security systems, high-end PC gaming, digital signage equipment and other professional applications, including retail, casino and hotel/motel management.

### Allows Time to Back Up Critical Files During a Blackout

Backup support allows you to work through short power failures and gives you enough time to safely save files and shut down your system in case of a prolonged blackout. Backup time varies according to load, but the line-interactive UPS system should keep an energy-efficient desktop computer with small LCD monitor powered as long as 90 minutes. During normal operation, incoming utility power keeps the replaceable internal battery fully charged, so backup power will always be available.

### 8 NEMA 5-15R Outlets Protect Your Connected Components

Six 5-15R outlets provide battery backup, surge protection and voltage regulation for your computer, monitor and other crucial components. The other two 5-15R outlets provide surge suppression only for printers, speakers and other desktop equipment regarded as non-essential during a blackout.

#### Automatic Voltage Regulation (AVR) Corrects Low- and High-Voltage Conditions

AVR protects your equipment from incremental hardware damage, data loss and performance problems caused by brownouts and overvoltages. The SMART1500TSU can correct brownouts as low as 89V and overvoltages as high as 145V back to nominal 120V power continuously, all while keeping the battery fully charged and ready to take over in case of power failure.

#### Automatically Turns Back On After Power Is Restored

Battery-independent restart ensures automatic UPS power-up without user interaction after lengthy power outages, even when batteries are expired and require replacement.

## **Combats Line Noise That Can Harm Equipment**

EMI (electromagnetic interference) and RFI (radio frequency interference) are common causes of

# Highlights

- Protects equipment against blackouts, brownouts, overvoltages, surges and line noise
- Keeps AC power running during blackouts to allow time for file saves and safe shutdown
- Maintains continuous 120V nominal output during brownouts and overvoltages
- Home-friendly alarm remains silent in backup mode, sounding only when imperative
- High >95% efficiency with low BTU ratings saves electricity and lowers your energy costs

# Applications

- Protect your PC and other sensitive electronics against power surges, line noise, brownouts, overvoltages and blackouts
- Operate essential equipment during short-term power outages using battery backup power
- Shut down desktop PCs and other equipment without data loss during long-term power outages
- Connect high-end security systems, casino gaming machines or digital signage in a small network

# Package Includes

• SMART1500TSU 1440VA



performance problems and can lead to incremental hardware damage, data corruption and audio/video transmission problems. The SMART1500TSU filters out this disruptive line noise on the AC line, so that it won't affect your equipment.

#### Designed for High Efficiency to Help You Save Money and Protect the Environment

A >95% efficiency rating reduces BTU emissions, energy consumption and, ultimately, your energy costs.

#### Home-Friendly Silent Alarm and LCD Touchscreen Keep You Informed 24/7

The UPS remains silent in both line and battery backup modes. The alarm sounds only to report low battery, battery replace, overload and fault condition. The LCD touchscreen offers five screens of UPS and site power information when the UPS is operating in either on-line or battery power mode. It displays vital voltage, load and battery data, as well as critical fault status.

#### Advanced Communications Ports Allow for Automatic Saves and Shutdowns

RS-232 and HID-compliant USB ports connect to a computer running Tripp Lite's free downloadable PowerAlert® software to enable safe unattended file saves and system shutdown in case of a prolonged power failure. Cables are included.

#### Compact Housing Compatible with Easy Desktop Installation

The space-saving ABS tower fits on a desktop, shelf or any other flat surface convenient to your workstation or home theater. The five-foot power cord with NEMA 5-15P plug connects to any compatible AC outlet. A built-in fan regulates the internal temperature to help prevent overheating.

# **Specifications**

OVERVIEW		
UPC Code	037332214249	
UPS Type	Line-Interactive	
OUTPUT		
Output Volt Amp Capacity (VA)	1440	
Output kVA Capacity (kVA)	1.44	
Output Watt Capacity (Watts)	1200	
Output kW Capacity (kW)	1.2	
Power Factor	0.83	
Nominal Voltage Details	120v nominal output in battery mode	
Frequency Compatibility	50 / 60 Hz	
Output Voltage Regulation (Line Mode)	120V (+6%/-12%)	
Output Voltage Regulation (Battery Mode)	120V (±10%)	
UPS Output Receptacles (Surge Suppression Only)	6 UPS outlets, 2 surge-only outlets	
Hot-Swap PDU options	PDUB15 (2U / 8 5-15R outlets)	
Output AC Waveform (AC Mode)	Pure sine wave	

1200W 120V Line-Interactive

UPS with 8 Outlets

- USB cable
- DB9 cable
- Owner's manual



Tripp Lite 1111 W. 35th Street Chicago, IL 60609 USA Telephone: 773.869.1234 www.tripplite.com

Output AC Waveform (Battery Mode)	PWM sine wave	
Nominal Output Voltage(s) Supported	110V; 115V; 120V	
Output Receptacles	(8) 5-15R	
Individually Controllable Load Banks	No	
INPUT		
Rated input current (Maximum Load)	12A	
Nominal Input Voltage(s) Supported	120V AC	
UPS Input Connection Type	5-15P	
Input Circuit Breakers	15A	
UPS Input Cord Length (ft.)	5	
Recommended Electrical Service	15A 120V	
Input Phase	Single-Phase	
BATTERY		
Full Load Runtime (min.)	2 min. (1200w)	
Half Load Runtime (min.)	8 min. (600w)	
DC System Voltage (VDC)	12	
Battery Recharge Rate (Included Batteries)	8 hours (10% to 90%)	
Battery Access	Battery access door	
Battery Replacement Description	Replaceable internal batteries (see manual)	
Expandable Runtime	No	
VOLTAGE REGULATION		
Voltage Regulation Description	Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 89 to 145	
Overvoltage Correction	Input voltages between 128 and 149 are reduced by 15%	
Undervoltage Correction	Input voltages between 89 and 108 are boosted by 18%	
USER INTERFACE, ALERTS & CONTROLS		
Front Panel LCD Display	Touchscreen LCD reports input voltage, output voltage, load percentage, battery charge percentage and overload status	
Switches	Power off/on switch	
Audible Alarm	UPS remains silent in battery backup mode; Alarm sounds only to report low-battery, fault, overload and replace- battery conditions	
SURGE / NOISE SUPPRESSION		
UPS AC Suppression Joule Rating	316	



Tripp Lite 1111 W. 35th Street Chicago, IL 60609 USA Telephone: 773.869.1234 www.tripplite.com

UPS Assporession Response     Istantanous       UPS Dataline Suppression     1 line TEL/DSL or Ethemet       EM/ RFI AC Noise Suppression     Yes       PHYSICAL     Final Control of Suppression       Physical     Final Control of Suppression       Installation Form Factors Suppression     Tower       Singing Dimensions (md / in)     11/0 x 9 30 x 19 50       Singing Dimensions (md / in)     15/0 3 Control of Suppression       VPS Housing Motion in     ASS       VPS Housing Motion in     3,5 x 5,5 x 15       VPS Housing Motion in     3,2 x 5,5 x 15       Singer Temperature Range     4,2 to +104 degress Fahrenheit / 10 to +40 degress Calsius       Restrict Humidity     0,3 0 9,0 non-condensing       Singer Temperature Range     4,2 to +104 degress Fahrenheit / 10 to +40 degress Calsius       Restrict Humidity     0,0 9,0 non-condensing       Actione BTU / Hr, Iful Load     175       Singer Temperature Range     4,2 to +104 degress Fahrenheit / 10 to +4,0 degress Calsius       Conde BTU / Hr, Iful Load     19,0 0,0 0, ft.       Actione STU / Hr, Iful Load     19,0 0,0 0, ft.       Actione STU / Hr, Iful Load     19,0 0,0 0, ft.       Actide Noise </th <th></th> <th></th>				
EM/ RFI AC Noise Suppression     Yes       PHYSICAL     Fan       Cooling Method     Fan       Installation Form Factors Supported     Tower       Primary Form Factor     Desktop       Shipping Menesions (hwd / in)     11.70 x 9.30 x 19.50       Shipping Menesions (hwd / in)     15.10       UPS Housing Material     ABS       UPS Power Module Dimensions     7.5 x 5.5 x 15       UPS Power Module Dimensions     7.5 x 5.5 x 15       UPS Power Module Weight (bs.)     32.2       EVVIROMENTAL     Storgo Tomperature Range       Ves Tower Module Dimensions     4.51 to 1104 degrees Fahrenheit / 10 to +40 degrees Celsius       Storage Temperature Range     +32 to +104 degrees Fahrenheit / 15 to +45 degrees Celsius       Relative Humidity     0 to 90%, non-condensing       AC Mede ETI / Hr, Ful Load)     175       AC Mede ETI (chr) Rating (100%)     56%.       Operating Elevation (m)     Up to 10,000 ft.       Audite Noise     Less than 50db (front side, 1m)       Operating Elevation (m)     Up to 300m       Communications Interface     Des 200m       Communications Interface     Des 200m <td>UPS AC Suppression Response Time</td> <td>Instantaneous</td>	UPS AC Suppression Response Time	Instantaneous		
PHYSICAL       Cooling Method     Fan       Installation Form Pactors Supported With Included Accessiones     Towar       Primary Form Factor     Desktop       Shipping Dimensions (thwd /in)     11.70 x 9.30 x 19.50       Shipping Dimensions (thwd /in)     11.70 x 9.30 x 19.50       UPS Housing Material     ABS       UPS Power Module Dimensions     7.5 x 5.5 x 15       UPS Power Module Veight (bs.)     32.2       ENVRONMENTAL     Operating Temperature Range       V5 to vising Material     4.50 x 11.0 degrees Eahrenheit / 0 to x 40 degrees Calsius       Storage Temperature Range     4.50 x 11.0 degrees Eahrenheit / 0 to x 40 degrees Calsius       Storage Temperature Range     4.50 x 11.0 degrees Eahrenheit / 0 to x 40 degrees Calsius       Storage Temperature Range     4.50 x 11.0 degrees Eahrenheit / 0 to x 40 degrees Calsius       Storage Temperature Range     4.50 x 11.0 degrees Calsius       Storage Temperature Range     4.50 x 11.0 degrees Calsius       Coleading Tomy Rating (100%)     2.95%       Communications (th)     Up to 10.000 tr.       Audite Nolse     Less than 500b (front side, 1m)       Operating Elevation (m)     Up to 3000m       Communicati	UPS Dataline Suppression	1 line TEL/DSL or Ethernet		
Cooling Method     Fan       Installation Form Factors Supported With Included Accessions     Tower       Primary Form Factor     Deaktop       Primary Form Factor     Deaktop       Shipping Dimensions (hud/ in)     11.70 x 9.30 x 19.50       Shipping Method     ABS       UPS Housing Material     ABS       UPS Power Module Dimensions     7.5 x 5.5 x 15       UPS Power Module Veight (bb.)     32.2       ENVIRONMENTAL     Storago Early Range       Porating Temperature Range     +32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius       Relative Humidiy     0 to 90%, non-condensing       AC Mode Efficiency Rating (100%)     95%       Operating Elevation (h.)     Up to 10.000 ft.       Addibie Noise     Less than 50db (front side, 1m)       Operating Elevation (m.)     Up to 3000m       Communications Interface     D9 Seriai; USB (HID enabled)       Power Aledt Software     Soft Solar So	EMI / RFI AC Noise Suppression	Yes		
Installation Form Factors Supported with included Accessionies     Tower       Primary Form Factor     Desktop       Shipping Dimensions (hwd / in.)     11.70 x 8.0 x 19.50       Shipping Weight (kg)     15.10       UPS Housing Material     ABS       UPS Power Module Dimensions (hwd, in.)     7.5 x 5.5 x 15       UPS Power Module Weight (bs.)     32.2       ENVIRONMENTAL     Very Power Module Weight (bs.)       Operating Temperature Range     +32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius       Storage Temperature Range     +32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius       Rever Module Weight (bs.)     0 to 90%, non-condensing       AC Mode BTU / Hr. (Full Load)     175       AC Mode Efficiency Rating (100% Coerting Elevation (h.)     Up to 10.000 ft.       Audible Noise     Less than 50db (front side, 1m)       Operating Elevation (m)     Up to 3000m       Communications Interface     DBS Serial; USB (HID enabled)       PowerAlert Software     Eor local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.thripite.com/poweralert       Communications Interface     DBB Serial; USB (HID enabled)       PowerAlert Software     Eor local monitorin	PHYSICAL			
Primary Form Factor     Desktop       Shipping Dimensions (twd / in.)     11.70 × 9.30 × 19.50       Shipping Weight (kg)     15.10       UPS Housing Material     ABS       UPS Power Module Dimensions     7.5 × 5.5 × 15       UPS Power Module Weight (bs.)     32.2       ENVIRONMENTAL        Operating Temperature Range     +32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius       Storage Temperature Range     +5 to +113 degrees Fahrenheit / 15 to +45 degrees Celsius       Relative Humidity     0 to 90%, non-condensing       AC Mode Efficiency Rating (100%)     >95%       Coperating Elevation (t).     Up to 10,000 ft.       Audble Noise     Less than 50db (front side, 1m)       Operating Elevation (m)     Up to 3000m       Communications Interface     DB9 Seriai; USB (HID enabled)       Power/Nett Software     For local monitoring via the UPS's built-in communication ports, download Power/Alert Local software at http://www.inpplike.com/power/alert       Communications Cable     USB and Serial Interface cables included       WatchDog Compatibility     Supports Watchdog application, OS and hard-reboot restart options for remote applications       Network UPS Tools Compatibility     Supports Watchdog application	Cooling Method	Fan		
Shipping Dimensions (hwd/in.)     11.70 x 9.30 x 19.50       Shipping Weight (kg)     15.10       UPS Housing Material     ABS       UPS Power Module Dimensions (hwd, in.)     7.5 x 5.5 x 15       UPS Power Module Dimensions (hwd, in.)     32.2       ENVRONMENTAL     Environmentations       Operating Temperature Range     432 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius       Storage Temperature Range     45 to +113 degrees Fahrenheit / 15 to +45 degrees Celsius       Relative Humidity     0 to 90%, non-condensing       AC Mode BTU / Hr. (Full Load)     175       AC Mode Efficiency Rating (100%)     95%       Operating Elevation (ft.)     Up to 10,000 ft.       Audble Noise     Less than 50db (front side, 1m)       Operating Elevation (m)     Up to 3000m       Communications Interface     DB9 Serial; USB (HID enabled)       PowerAlert Software     For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.ttppilte.com/poweralert       Communications Interface     USB and Serial interface cables included       WatchDog Compatibility     Supports Watchdog application, OS and hard-reboot restart options for remote applications       Network UPS Tools Compatibility	Installation Form Factors Supported with Included Accessories	Tower		
Shipping Weight (kg)     15.10       UPS Housing Material     ABS       UPS Power Module Dimensions (hwd, n,)     7.5 x 5.5 x 15       UPS Power Module Weight (kb.)     32.2       ENVIRONMENTAL     0       Operating Temperature Range     +32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius       Storage Temperature Range     +55 to +113 degrees Fahrenheit / 0 to +40 degrees Celsius       Relative Humidity     0 to 90%, non-condensing       AC Mode Efficiency Rating (100%)     >96%       Operating Elevation (ft.)     Up to 10,000 ft.       Audble Noise     Less than 50db (front side, 1m)       Operating Elevation (m)     Up to 3000m       Communications Interface     DB9 Serial; USB (HID enabled)       PowerAlert Software     For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.itppile.com/poweralert       Communications Cable     USB and Serial interface cables included       WatchDog Compatibility     Supports Watchdog application, OS and hard-reboot restart options for remote applications       Network UPS Tools Compatibility     Supports Watchdog application, OS and hard-reboot restart options for remote applications       Network UPS Tools Compatibibility     Supports Watchdog application,	Primary Form Factor	Desktop		
UPS Housing Material     ABS       UPS Power Module Dimensions (hwd, in,)     7.5 x 5.5 x 15       UPS Power Module Weight (lbs.)     32.2       ENVIRONMENTAL     32.2       Operating Temperature Range     +32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius       Storage Temperature Range     +32 to +104 degrees Fahrenheit / 15 to +45 degrees Celsius       Relative Humidity     0 to 90%, non-condensing       AC Mode BTU / Hr. (Full Load)     175       AC Mode Efficiency Rating (100%)     >95%       Operating Elevation (ft.)     Up to 10,000 ft.       Audible Noise     Less than 50db (front side, 1m)       Operating Elevation (m)     Up to 3000m       Communications Interface     DB9 Serial; USB (HID enabled)       PowerAlert Software     For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.inpplic.com/poweralert       Communications Cable     USB and Serial interface cables included       WatchDog Compatibility     Supports Watchdog application, OS and hard-reboot restart options for remote applications       Network UPS Tools Compatibility     Supports Watchdog application, OS and hard-reboot restart options for remote applications       Network UPS Tools Compatibility     Supports Watchdog a	Shipping Dimensions (hwd / in.)	11.70 x 9.30 x 19.50		
UPS Power Module Dimensions (hwd, in,)     7.5 x 5.5 x 15       UPS Power Module Weight (bs.)     32.2       ENVIRONMENTAL	Shipping Weight (kg)	15.10		
(twd, in.)     /************************************	UPS Housing Material	ABS		
ENVIRONMENTAL       Operating Temperature Range     +32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius       Storage Temperature Range     +5 to +113 degrees Fahrenheit / -15 to +45 degrees Celsius       Relative Humidity     0 to 90%, non-condensing       AC Mode BTU / Hr. (Full Load)     175       AC Mode Efficiency Rating (100% Load)     >95%       Operating Elevation (ft.)     Up to 10.000 ft.       Audibe Noise     Less than 50db (front side, 1m)       Operating Elevation (m)     Up to 3000m       Communications Interface     DB9 Serial; USB (HID enabled)       PowerAlert Software     For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert       Communications Cable     USB and Serial interface cables included       WatchDog Compatibility     Supports Watchdog application, OS and hard-reboot restart options for remote applications       Network UPS Tools Compatibility     Empression (10 milliseconds max)       Low Voltage Transfer Time     6 milliseconds typical (10 milliseconds max)		7.5 x 5.5 x 15		
Operating Temperature Range     +32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius       Storage Temperature Range     +5 to +113 degrees Fahrenheit / -15 to +45 degrees Celsius       Relative Humidity     0 to 90%, non-condensing       AC Mode BTU / Hr. (Full Load)     175       AC Mode Efficiency Rating (100%)     >95%       Operating Elevation (ft.)     Up to 10,000 ft.       Audible Noise     Less than 50db (front side, 1m)       Operating Elevation (m)     Up to 3000m       Communications Interface     D89 Serial; USB (HID enabled)       PowerAlert Software     For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert       Communications Cable     USB and Serial interface cables included       WatchDog Compatibility     Supports Watchdog application, OS and hard-reboot restart options for remote applications       Network UPS Tools Compatibility     Supports Watchdog application, OS and hard-reboot restart options for remote applications       Link / BATTERY TRANSFER     for illiseconds typical (10 milliseconds max)       Cow Voltage Transfer to Battery     for illiseconds typical (10 milliseconds max)	UPS Power Module Weight (lbs.)	32.2		
Storage Temperature Range   +5 to +113 degrees Fahrenheit / -15 to +45 degrees Celsius     Relative Humidity   0 to 90%, non-condensing     AC Mode BTU / Hr. (Full Load)   175     AC Mode Efficiency Rating (100%)   >95%     Operating Elevation (ft.)   Up to 10,000 ft.     Audible Noise   Less than 50db (front side, 1m)     Operating Elevation (m)   Up to 3000m     COMMUNICATIONS   Communications Interface     PowerAlert Software   For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert     Communications Cable   USB and Serial interface cables included     WatchDog Compatibility   Supports Watchdog application, OS and hard-reboot restart options for remote applications     Network UPS Tools Compatibility   Supports Watchdog application, OS and hard-reboot restart options for remote applications     LINE / BATTERY TRANSFER   fmilliseconds typical (10 milliseconds max)     Low Voltage Transfer to Battery   an	ENVIRONMENTAL			
Relative Humidity 0 to 90%, non-condensing   AC Mode BTU / Hr. (Full Load) 175   AC Mode Efficiency Rating (100% Load) >95%   Operating Elevation (ft.) Up to 10,000 ft.   Audible Noise Less than 50db (front side, 1m)   Operating Elevation (m) Up to 3000m   COMMUNICATIONS   Communications Interface DB9 Serial; USB (HID enabled)   PowerAlert Software For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert   Communications Cable USB and Serial interface cables included   WatchDog Compatibility Supports Watchdog application, OS and hard-reboot restart options for remote applications   LINE / BATTERY TRANSFER   Transfer Time 6 milliseconds typical (10 milliseconds max)   Low Voltage Transfer to Battery an	Operating Temperature Range	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius		
AC Mode BTU / Hr. (Full Load)   175     AC Mode Efficiency Rating (100%)   >95%     Operating Elevation (ft.)   Up to 10,000 ft.     Audible Noise   Less than 50db (front side, 1m)     Operating Elevation (m)   Up to 3000m     COMMUNICATIONS     Communications Interface   DB9 Serial; USB (HID enabled)     PowerAlert Software   For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert     Communications Cable   USB and Serial interface cables included     WatchDog Compatibility   Supports Watchdog application, OS and hard-reboot restart options for remote applications     Network UPS Tools Compatibility   For miliseconds typical (10 milliseconds max)     Low Voltage Transfer to Battery   6 milliseconds typical (10 milliseconds max)	Storage Temperature Range	+5 to +113 degrees Fahrenheit / -15 to +45 degrees Celsius		
AC Mode Efficiency Rating (100%)   >95%     Operating Elevation (ft.)   Up to 10,000 ft.     Audible Noise   Less than 50db (front side, 1m)     Operating Elevation (m)   Up to 3000m     COMMUNICATIONS     Communications Interface   DB9 Serial; USB (HID enabled)     PowerAlert Software   For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert     Communications Cable   USB and Serial interface cables included     WatchDog Compatibility   Supports Watchdog application, OS and hard-reboot restart options for remote applications     Network UPS Tools Compatibility   Supports Watchdog application, OS and hard-reboot restart options for remote applications     LINE / BATTERY TRANSFER   f milliseconds typical (10 milliseconds max)     Low Voltage Transfer to Battery   on	Relative Humidity	0 to 90%, non-condensing		
Load) Jab //a   Operating Elevation (ft.) Up to 10,000 ft.   Audible Noise Less than 50db (front side, 1m)   Operating Elevation (m) Up to 3000m   COMMUNICATIONS   Communications Interface DB9 Serial; USB (HID enabled)   PowerAlert Software For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert   Communications Cable USB and Serial interface cables included   WatchDog Compatibility Supports Watchdog application, OS and hard-reboot restart options for remote applications   LINE / BATTERY TRANSFER 6 milliseconds typical (10 milliseconds max)   Low Voltage Transfer to Battery an	AC Mode BTU / Hr. (Full Load)	175		
Audible Noise   Less than 50db (front side, 1m)     Operating Elevation (m)   Up to 3000m     COMMUNICATIONS     Communications Interface   DB9 Serial; USB (HID enabled)     PowerAlert Software   For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert     Communications Cable   USB and Serial interface cables included     WatchDog Compatibility   Supports Watchdog application, OS and hard-reboot restart options for remote applications     Network UPS Tools Compatibility   Supports Watchdog application, OS and hard-reboot restart options for remote applications     LINE / BATTERY TRANSFER   6 milliseconds typical (10 milliseconds max)     Low Voltage Transfer to Battery   an	AC Mode Efficiency Rating (100% Load)	>95%		
Operating Elevation (m)   Up to 3000m     COMMUNICATIONS   DB9 Serial; USB (HID enabled)     Communications Interface   DB9 Serial; USB (HID enabled)     PowerAlert Software   For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert     Communications Cable   USB and Serial interface cables included     WatchDog Compatibility   Supports Watchdog application, OS and hard-reboot restart options for remote applications     Network UPS Tools Compatibility   G milliseconds typical (10 milliseconds max)     LINE / BATTERY TRANSFER   6 milliseconds typical (10 milliseconds max)	Operating Elevation (ft.)	Up to 10,000 ft.		
Operation of the second stypical (10 milliseconds max)     COMMUNICATIONS     Communications Interface   DB9 Serial; USB (HID enabled)     PowerAlert Software   For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert     Communications Cable   USB and Serial interface cables included     WatchDog Compatibility   Supports Watchdog application, OS and hard-reboot restart options for remote applications     Network UPS Tools Compatibility   Image: Communication section	Audible Noise	Less than 50db (front side, 1m)		
Communications Interface   DB9 Serial; USB (HID enabled)     PowerAlert Software   For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert     Communications Cable   USB and Serial interface cables included     WatchDog Compatibility   Supports Watchdog application, OS and hard-reboot restart options for remote applications     Network UPS Tools Compatibility   Image: Communication ports (Compatibility)     LINE / BATTERY TRANSFER   6 milliseconds typical (10 milliseconds max)     Low Voltage Transfer to Battery   an	Operating Elevation (m)	Up to 3000m		
PowerAlert Software   For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at     Communications Cable   USB and Serial interface cables included     WatchDog Compatibility   Supports Watchdog application, OS and hard-reboot restart options for remote applications     Network UPS Tools Compatibility   Image: Compatibility     LINE / BATTERY TRANSFER   6 milliseconds typical (10 milliseconds max)     Low Voltage Transfer to Battery   Image: Compatibility	COMMUNICATIONS			
http://www.tripplite.com/poweralert     Communications Cable   USB and Serial interface cables included     WatchDog Compatibility   Supports Watchdog application, OS and hard-reboot restart options for remote applications     Network UPS Tools Compatibility   Supports Watchdog application, OS and hard-reboot restart options for remote applications     LINE / BATTERY TRANSFER   6 milliseconds typical (10 milliseconds max)     Low Voltage Transfer to Battery   ao	Communications Interface	DB9 Serial; USB (HID enabled)		
WatchDog Compatibility   Supports Watchdog application, OS and hard-reboot restart options for remote applications     Network UPS Tools Compatibility   Image: Compatibility     LINE / BATTERY TRANSFER   Image: Compatibility     Transfer Time   6 milliseconds typical (10 milliseconds max)     Low Voltage Transfer to Battery   ao	PowerAlert Software	For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert		
Network UPS Tools Compatibility   LINE / BATTERY TRANSFER   Transfer Time 6 milliseconds typical (10 milliseconds max)   Low Voltage Transfer to Battery 80	Communications Cable	USB and Serial interface cables included		
LINE / BATTERY TRANSFER   Transfer Time   6 milliseconds typical (10 milliseconds max)   Low Voltage Transfer to Battery	WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications		
Transfer Time 6 milliseconds typical (10 milliseconds max)   Low Voltage Transfer to Battery 20	Network UPS Tools Compatibility			
Low Voltage Transfer to Battery	LINE / BATTERY TRANSFER			
Low Voltage Transfer to Battery 89	Transfer Time	6 milliseconds typical (10 milliseconds max)		
	Low Voltage Transfer to Battery Power (Setpoint)	89		



High Voltage Transfer to Battery Power (Setpoint)	145		
SPECIAL FEATURES			
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported		
High Availability UPS Features	Battery Independent Restart		
Green Energy-Saving Features	Greater than 95% efficiency - GREEN UPS		
CERTIFICATIONS			
UPS Certifications	Meets FCC Part 15 Category A (EMI); Tested to CSA (Canada); Tested to NOM (Mexico); Tested to UL1778 (USA)		
UPS Certification Details	UL1778: 2014 5th EDITION; CAN/CSA-C22.2 NO. 107.3:2014 3rd EDITION; FCC CLASS A; FCC Part 68 Approved (#5WSWP01B005); Industry Canada Approved (#3449A-005, REN0.1B); RETIE (Colombia)		
WARRANTY			
Product Warranty Period (U.S. & Canada)	2-year warranty, 3 year with registration. Note: <a <br="" class="insuranceLink">href="//www.tripplite.com/support/product-warranty-registration"&gt;Registration is required</a> for 3-year warranty.		
Product Warranty Period (Latin America)	2-year limited warranty		
Product Warranty Period (International)	2-year warranty, 3 year with registration. Note: <a <br="" class="insuranceLink">href="//www.tripplite.com/support/product-warranty-registration"&gt;Registration is required</a> for 3-year warranty.		
Product Warranty Period (Mexico)	2-year warranty, 3 year with registration. Note: <a <br="" class="insuranceLink">href="//www.tripplite.com/support/product-warranty-registration"&gt;Registration is required</a> for 3-year warranty.		
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 <a class="insuranceLink" href="//www.tripplite.com/support/insurance-policy">Ultimate Lifetime Insurance</a>		

© 2019 Tripp Lite. All rights reserved. All product and company names are trademarks or registered trademarks of their respective holders. Use of them does not imply any affiliation with or endorsement by them. Tripp Lite has a policy of continuous improvement. Specifications are subject to change without notice. Tripp Lite uses primary and third-party agencies to test its products for compliance with standards. See a list of Tripp Lite's testing agencies: <a href="https://www.tripplite.com/products/product-certification-agencies">https://www.tripplite.com/products/product-certification-agencies</a>