

Smart Online Expandable Rack/Tower UPS System

Online, double-conversion protection for mission critical applications



Cisco
Compatible

CISCO SYSTEMS
Technology
Developer
Partner

Model #: SU1500RTXL2U

- ▶ 1500VA online 2U expandable rack / tower UPS
- ▶ Enhanced serial communications port and SNMP/Web card slot
- ▶ Maintains 120V +/-2% output during overvoltages to 138 and brownouts as low as 65V
- ▶ 2 load banks, 6 outlets
- ▶ Fault tolerant auto-bypass
- ▶ \$250,000 Ultimate Lifetime Insurance (USA, Puerto Rico & Canada only)

DESCRIPTION

Tripp Lite's Smart Online SU1500RTXL2U on-line, double conversion UPS protects critical server, networking and telecommunications equipment from blackouts, voltage fluctuations and transient surges. Multi-use form factor occupies only 2 rack spaces (2U) in standard 19 inch rackmount configuration and includes tower stands to support upright placement. Large capacity 1.5kVA / 1200 watt UPS continuously converts incoming AC to DC, then back to perfect sine wave AC output at 120V AC (+/-2%). Removes harmonic distortion, fast electrical impulses, frequency fluctuations and other hard-to-solve power problems not addressed by other UPS types. True sine wave output and zero transfer time offers guaranteed compatibility with all equipment types. Includes 6 outlets arranged in two individually switchable load banks that can be independently controlled via software interface to selectively reboot remote equipment, or shed less critical loads to extend battery runtime for more critical equipment. Battery support can be extended indefinitely through the addition of external 2U rackmount battery packs (part# BP48V212U). Includes slot for internal SNMP/web card, plus DB9 enhanced serial monitoring port for unattended shutdown, remote control and monitoring of UPS system and power data. Compatible with Tripp Lite's Watchdog system service software.

KEY BUYING POINTS

- True on-line, double conversion UPS provides pure, sine wave AC output at all times
- Maintains continuous operation through blackouts, voltage fluctuations and surges with zero transfer time
- Removes harmonic distortion, electrical impulses, frequency variations and other hard to solve power problems
- Accepts input voltages between 80 and 138 (65 to 138 at loads under 70%), regulating output to 120V +/-2%
- 1500VA / 1200 watt power capacity with 6 NEMA 5-15R outlets
- Standard internal battery set provides 17 minutes runtime at half load
- Expandable runtime with multiple external battery packs (part# BP48V212U)
- Innovative design makes unit adaptable for rackmount or tower applications (tower stands included)
- Uses only 2 rack spaces (2U) in standard 19 inch rack
- DB9 serial port for network interface; SNMP compatible
- Slot for optional SNMP/web card (part# SNMPWEBCARD)
- PowerAlert unattended shutdown software and 6 ft. network cable included
- Compatible with Tripp Lite's Watchdog system service software
- Fault tolerant auto-bypass maintains continuous utility output to connected equipment, even in cases where the UPS is overloaded or suffers an internal failure that requires service
- Diagnostic LEDs
- Battery replacement door
- Mounting hardware included for 4 post rack enclosures, 2 post telecom rack compatible with separate purchase 2POSTRMKIT accessory
- \$250,000 Ultimate Lifetime connected equipment insurance
- 2 year manufacturers product warranty

TYPICAL APPLICATIONS

- Ideal for protection of critical 120V equipment in server rooms, internetworking closets and telecommunications systems in rackmount

or tower applications. Common applications include corporate or departmental servers, workstations, hubs, routers, bridges, CAD/CAM workstations, concentrators, IP telephony and traditional PBX switching systems.

OPTIONS & ACCESSORIES

- External battery pack: [BP48V212U](#)
- SNMP accessories: [SNMPWEBCARD](#), [ENVIROSENSE](#)
- Dataline protectors: [DNET1](#), [DTEL2](#), [DCATV](#)
- Circuit Tester: [CT120](#)
- Rack enclosures: [SRNET45UB](#), [SR45U](#), [SR45UB](#), [SRX24UB](#)
- Power distribution: [PDU1215](#), [PS7224](#)
- Two Post Rackmount Kit: [2POSTRMKIT](#)
- Extended warranties: 3 Year [WEXT3-500-1500](#), 5 Year [WEXT5-500-1500](#)

PACKAGE INCLUDES

- SU1500RTXL2U Online Double-Conversion UPS System
- PowerAlert Software and cabling
- Mounting hardware for 4 post rack enclosures / tower stands
- Instruction manual with warranty information

COMPLETE SPECIFICATIONS

SYSTEM OVERVIEW

System overview:

Online, double conversion 2U rack/tower UPS system continuously maintains near-perfect output power for critical internetworking and telecommunications equipment. Completely regenerates input power into perfectly regulated sine wave output free of harmonic distortion, fast electrical impulses and frequency fluctuations. Maintains output within 2% of 120V during brownouts as low as 65V and overvoltages to 138V. Supports enhanced monitoring of UPS and line power conditions via DB9 serial port, included PowerAlert monitoring software and complete cabling. Includes slot for SNMPWEBCARD and 2 individually controllable output load banks. Runtime is expandable with BP48V212U battery packs.

Voltage compatibility:

120V

Frequency compatibility:

50/60 Hz compatible

OUTPUT

Output volt amp capacity (VA):

1500

Output watt capacity (watts):

1200

Output nominal voltage:

120V AC

Output voltage regulation:

Maintains full-time sine wave output within 2% of 120V, less than 5% total harmonic distortion

Output frequency regulation:

Regulates line frequency to 50/60Hz +/- 0.05Hz

Outlet quantity / type:

6 NEMA 5-15R

Customized load management receptacles:

2 individually controllable load banks support automated load shedding and remote reboot on demand of locked network devices. Configurable via PowerAlert software to automatically switch off optional loads, like monitors, to increase available runtime for servers and other critical devices. (Bank A consists of 4 outlets / Bank B consists of 2 outlets)

Overload protection:

Via input breaker

INPUT

Maximum input amps:

12A / 1395 watts

Input connection type:

NEMA 5-15P

Input cord length: 10 ft. 12 gauge

Recommended electrical service: 15A 120V

BATTERY

Full load runtime: Internal batteries — 5 min. /1 BP48V212U battery pack (1500VA) — 28 min.

Half load runtime: Internal batteries — 17 min. / 1 BP48V212U battery pack (750VA) — 74 min.

Expandable battery runtime: Supports extended runtime with optional external battery pack BP48V212U (multi-pack compatible)

DC system voltage: 48 V DC

Typical battery lifespan: 3-6 years, depending on usage

Battery recharge rate: 2-4 hours to 90%

VOLTAGE REGULATION

Voltage regulation description: On-line, double-conversion power conditioning maintains output within 2% of 120 volts at all times

Overvoltage correction: Maintains output of 120V +/-2% without consuming battery power during overvoltages to 138V AC

Brownout correction: Maintains output of 120V +/-2% during undervoltages to 80V AC

Severe brownout correction: At load levels less than 70%, UPS maintains output of 120V +/-2% during undervoltages to 65V AC

LEDS ALARMS & SWITCHES

Front panel LEDs: 6 LED STATUS DISPLAY: line power (green), online (green), bypass (yellow), on battery (green), overload (red), battery low (yellow)
4 LED LOAD / BATTERY LEVEL DISPLAY (100%, 75%, 50%, 25%)

Alarms: Multi-function audible alarm offers notification of UPS start, backup operation, low battery warning, overload, UPS fault and remote shutdown

Switches: Includes main power off/on switch, plus 1 switch to select battery charge / load level display

SURGE / NOISE SUPPRESSION

AC surge suppression: 2440 joules

AC suppression response time: Instantaneous

EMI / RFI AC noise suppression: Yes

PHYSICAL

Shipping weight (lbs): 63.8

Shipping weight (kg): 29.0

Unit weight (lbs): 49

Unit weight (kg): 22.2

Unit Dimensions (HWD/in): 3.5 x 17.5 x 22

Unit Dimensions (HWD/cm): 8.89 x 44.5 x 52.8

Material of construction: Steel

Form factors supported: Supports 2U rackmount installation in 4 post rack enclosures. 2 post rackmount installation supported with optional 2POSTRMKIT. Upright tower installation supported with included tower stands

Cooling method: Built-in cooling fan

Battery Access: User replaceable, hot swap battery replacement supported via front access panel

ENVIRONMENTAL

Operating Temperature: +32 to +104 degrees Fahrenheit
0 to +40 degrees Celsius

Storage Temperature: +5 to +122 degrees Fahrenheit

-15 to +50 degrees Celsius

Relative Humidity:

0 to 95%, non-condensing

COMMUNICATIONS

Network monitoring port:

Built-in DB9 port offers both enhanced RS-232 enable monitoring data, plus contact closure monitoring ability

Software and cabling included:

Yes, includes PowerAlert software CD-ROM and complete cabling

SNMP compatibility:

Yes, includes slot for optional SNMPWEBCARD accessory (#SNMPWEBCARD)

WatchDog compatibility:

Yes, compatible with Tripp Lite's Watchdog system service to restore operation to locked equipment through soft reboot of application / OS or hard power off/on reboot of connected equipment - ideal for unattended kiosk applications

LINE / BATTERY TRANSFER

Transfer time from line power to battery mode:

Zero, online UPS continuously converts incoming AC to DC, then back to AC. When commercial power is interrupted, UPS maintains continuous output from battery reserves with absolutely no disruption in output AC power.

Low voltage transfer to battery power:

Maintains continuous operation during undervoltages as low as 80V (65V at load levels under 70%). Below this switchover point, output is supported from battery derived AC power.

High voltage transfer to battery power:

Maintains continuous operation without using battery power during overvoltages to 138V. Above this point, output is supported from battery derived AC power.

CERTIFICATIONS

Certifications:

UL1778 (USA), cUL (Canada), FCC Class A (emissions), NOM (Mexico)

WARRANTY

Optional coverage:

3-5 year warranties, plus next day and on-site warranty coverage available for select opportunities. Contact Tripp Lite for additional information.

Product warranty:

2 year product warranty

Connected equipment insurance (USA and Canada Only):

\$250,000 connected equipment insurance (USA and Canada only)

SPECIAL FEATURES

EPO port:

Supports "Emergency Power Off" via special-order cabling, contact Tripp Lite for more information

Cold Start:

Yes, inverter can be "cold started" to enable temporary AC output during a power failure

Appearance:

Attractive black steel rackmount housing

BATTERY PACK ACCESSORY (optional)

Battery Pack Accessory (optional):

BP48V212U (optional)

*The policy of Tripp Lite is one of continuous improvement.
Specifications are subject to change without notice.
Therefore, your product may vary slightly from what is currently listed.*



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