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Model Number: SU1000RT2U

SmartOnline Expandable Rack/Tower UPS System - Online, double-conversion protection for mission critical applications

Highlights

- 1000VA online expandable 2U 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 60V
- 2 load banks, 6 outlets
- Fault tolerant auto-bypass
- \$100,000 [Ultimate Lifetime Insurance](#) (USA, Puerto Rico & Canada only)

Description

Tripp Lite's SmartOnLine SU1000RT2U 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 and removable rack hardware to support tower and stacking applications. Large capacity 1kVA/800 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# BP36V142U). 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.

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.

Package Includes

- SU1000RT2U Rack-Tower UPS System
- PowerAlert Software and cabling
- Mounting hardware
- Warranty information
- Instruction manual

Features

- 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 85 and 138 (60 to 138 at loads under 70%), regulating output to 120v +/-2%
- 1000VA/800 watt power capacity with 6 NEMA 5-15R outlets

- Standard internal battery set provides 18 minutes runtime at half load
- Expandable runtime with multiple external battery packs (part# BP36V142U)
- Innovative design makes unit adaptable for rackmount, tower, or stacking applications
- Fault tolerant auto-bypass maintains continuous utility output to connected equipment with no disruption in output AC, even in cases where the UPS is overloaded or experiences major component failure and requires service
- 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
- Diagnostic LEDs
- Battery replacement door
- Mounting hardware included
- \$100,000 Ultimate Lifetime [connected equipment insurance](#)
- 2 year manufacturers product warranty

Specifications

OUTPUT	
Frequency compatibility	50 / 60 Hz
Output VA	1000
Output watts	800
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
Overload protection	Via 15A input breaker
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. (Each load bank includes 2 outlets)."
INPUT	
UPS Input cord length (ft.)	6 ft. 14 gauge
Recommended Electrical Service	15A 120V
Maximum Input Amps (A)	8.6A / 955 watts
Input connection type	NEMA 5-15P
Voltage compatibility (VAC)	120
BATTERY	
Expandable battery runtime	Supports extended runtime with optional external battery pack BP36V142u (multi-pack compatible)

DC system voltage (VDC)	36
Battery Access	User replaceable, hot swap battery replacement supported via front access panel
Full load runtime	Internal batteries — 6 min. 1 BP36V142U battery pack (1000VA) — 37 min.
Half load runtime	Internal batteries — 18 min. / 1 BP36V142U battery pack (500VA) — 89 min.
Battery Pack Accessory (optional)	BP36V142U (optional)
Typical battery lifespan	3-6 years, depending on usage
Battery charge	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% during overvoltages to 138V AC
Brownout correction	Maintains output of 120V +/-2% during undervoltages to 85V AC
Severe brownout correction	At load levels less than 70%, UPS maintains output of 120V +/-2% during undervoltages to 60V AC
LEDS ALARMS & SWITCHES	
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
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%)
SURGE / NOISE SUPPRESSION	
UPS AC suppression joule rating	480 joules
EMI / RFI AC noise suppression	Yes
AC suppression response time	Instantaneous
PHYSICAL	
Shipping weight (lbs)	62
Shipping weight (kg)	28.1
Unit Dimensions (HWD/in)	3.5 x 17.5 x 18.5
Unit Dimensions (HWD/cm)	8.89 x 44.5 x 47
Unit weight (lbs)	41
Unit weight (kg)	18.6

Cooling method	Built-in cooling fan
Material of construction	Steel
Form factors supported	2U rackmount, tower (stands included)
ENVIRONMENTAL	
Relative Humidity	0 to 95%, non-condensing
Line mode BTU/hr. (Max.)	442.8
Battery mode BTU/hr. (Max.)	442.8
COMMUNICATIONS	
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
Network monitoring port	Built-in DB9 port offers both enhanced RS-232 enable monitoring data, plus contact closure monitoring ability
EPO port	Supports "Emergency Power Off" via special-order cabling, contact Tripp Lite for more information
SNMP compatibility	Yes, includes slot for optional SNMPWEBCARD accessory (#SNMPWEBCARD)
Software and cabling included	Yes, includes PowerAlert software CD-ROM and complete cabling
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 85V (60V 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.
SPECIAL FEATURES	
Appearance	Attractive black steel rackmount housing
Cold Start	Yes, inverter can be "cold started" to enable temporary AC output during a power failure
CERTIFICATIONS	
Certifications	Tested to UL1778 (USA), cUL (Canada), FCC Class A (emissions), NOM (Mexico)
WARRANTY	
Product Warranty Period (Worldwide)	2-year limited 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.
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$100,000 Ultimate Lifetime Insurance

More information, including related products, owner's manuals, and additional technical specifications, can be found online at <http://www.tripplite.com/sku/SU1000RT2U>.

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