Model #: SU750RTXL2U

SmartOnline Expandable 2U Rack / Tower UPS System - On-line, double-conversion, sine wave UPS with PDU switching, current monitoring and fault-tolerant auto-bypass

Highlights

750VA on-line, double-conversion, extended-run 2U rack/tower UPS

Maintains sine wave 100/110 or 120V +/-2% output during overvoltages to 138V and brownouts as low as 65V (50/60Hz auto-sensing)

Simultaneous communications via HID-compliant USB port, serial port, SNMP/Web card slot and EPO interface

Fault-tolerant auto-bypass mode, current monitoring and switched PDU control via 2 switchable output load banks

InputNEMA 5-15P (120V 15A); Output6 NEMA 5-15R (120V)

2-year product warranty

Description

750VA on-line, double-conversion UPS system for critical server, network and telecommunications equipment. 2U rackmount form factor with an installed depth of only 13.5 in. Extended runtime available with optional BP24V15RT2U, BP24V28-2U (limit of one per UPS) or BP24V70-3U (multi-pack compatible) external battery packs. Full-time sine wave 100, 110 or 120V +/-2% output. Actively converts raw incoming AC power to DC, then re-converts output back to completely regulated, filtered AC output. Operates continuously without using battery power during brownouts to 65V and overvoltages to 138. NEMA 5-15P input plug; NEMA 5-15R output receptacles. Network-grade AC surge and noise suppression. Zero transfer time between AC and battery operation. Network management interfaces support simultaneous communications via USB port, DB9 serial port and SNMPWEBCARD slot. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Supports simultaneous detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces. Includes PowerAlert monitoring software and complete cabling. Emergency Power Off (EPO) interface. Integrated two-bank PDU switching supports load shedding and remote reboot of connected equipment. 3-stage metered current monitoring and battery charge status LEDs. LED display panel easily rotates for viewing in rackmount or tower configurations. Dataline surge suppression for dialup, DSL or network Ethernet connection. Utility power and voltage regulation LEDs. Audible alarm. Self-test. Fault-tolerant auto-bypass mode. 4-post rackmount accessories included; 2-9USTAND tower kit and 2POSTRMKITWM 2-post rack & wallmount accessories available. Field-replaceable, hot-swappable internal batteries and external battery packs. Attractive all-black color scheme. 2-year warranty

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

Online Double-Conversion UPS System

PowerAlert Software and cabling

Mounting hardware for 4-post rack enclosures

Instruction manual with warranty information

Features

SmartOnline high-performance UPS system is ideal for critical voice, data, medical and industrial network applications

True on-line, double-conversion UPS provides perfectly regulated sine wave output within 2% of 100/110/120V (user selectable) under all usage conditions

Maintains continuous operation through blackouts, voltage fluctuations and surges with zero transfer time

Removes harmonic distortion, fast electrical impulses, frequency variations and other hard-to-solve power problems not addressed by other UPS types

Corrects line voltage conditions as low as 65V and as high as 138V back to selectable 100/110/120V (+/-2%) values

Standard internal battery set offers 11 min. runtime at half load (300W) and 6 min. at full load (600W)

Extended runtime available with optional BP24V15RT2U, BP24V28-2U (limit of one per UPS) or BP24V70-3U (multi-pack compatible) external battery packs

Compact rackmount form factor installs using only 2 rack spaces (2U) with a maximum installed depth of only 13.5 inches

Ships with all mounting accessories for 4-post rackmount installation

Optional 2POSTRMKITWM enables 2-post rackmount or wallmount installation

Optional 2-9USTAND accessory enables small-footprint upright tower placement

Fault-tolerant auto-bypass maintains continuous utility output to connected equipment, even if the UPS suffers internal failure and requires maintenance

Network interfaces support simultaneous communications via built-in USB, DB9 serial and SNMPWEBCARD slot

Includes USB and DB9 serial ports. Built-in DB9 port offers both enhanced RS-232 enabled monitoring data, plus contact closure monitoring ability. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X.

Included PowerAlert UPS monitoring software supports safe unattended shutdown, monitoring and control via local connected servers, plus any number of additional servers over IP

UPS interface supports on-battery, low-battery, power-restored, AC-voltage, DC-voltage, output current monitoring, battery charge current, battery capacity, AC line frequency, timed inverter sutoff, activate self-test, load bank output power control and remote reboot, UPS nominal voltage adjustment and UPS line to battery power voltage setpoints

Built-in Emergency Power Off (EPO) interface with cable

NEMA 5-15P input plug/NEMA 5-15R output receptacles

Integrated 2-bank switched PDU enables remote outlet management for load shedding or remote reboot of individual devices (each load bank consists of a single outlet)

Front panel LEDs offer current monitoring and battery charge level information

UPS ships fully assembled in full compliance with DOT regulations; no time-consuming connection of internal batteries by user required

Supports 2-post rackmount installation with optional 2POSTRMKITWM accessory

Single-line tel/DSL or network Ethernet line surge suppression

Specifications

SYSTEM OVERVIEW	
Voltage compatibility	120V AC (100/110/120V)
Frequency compatibility	50/60 Hz compatible (auto-sensing)
OUTPUT	
Output VA	750
Output watts	600
Output nominal voltage	120V AC (100/110/120V)
Output voltage regulation	Maintains full-time sine wave output within 2% of selected nominal, less than 3% total harmonic distortion (linear load) / 6% total harmonic distortion (computer load)
Output frequency regulation	Regulates line frequency to 50/60Hz +/- 0.05Hz
Outlet quantity / type	6 NEMA 5-15R

Customized load management receptacles	2 controllable single-outlet load banks support load shedding and remote reboot on demand of locked network devices.
Overload protection	15A input breaker

INPUT

Maximum input amps	8.6A
Input connection type	NEMA 5-15P
Input cord length	6 ft. 14 gauge
Recommended Electrical Service	15A 120V

BATTERY

Full load runtime	4 min. with internal batteries (600 watts)
Half load runtime	11 min. with internal batteries (300 watts)
Expandable battery runtime	Extended runtime available with optional BP24V15RT2U, BP24V28-2U (limit of one per UPS) or BP24V70-3U (multi-pack compatible) external battery packs
DC system voltage	24VDC
Typical battery lifespan	3-6 years, depending on usage
Battery recharge rate	Less than 6 hours to 80%
Replacement Battery Cartridge	RBC92-2U

VOLTAGE REGULATION

Voltage regulation description	On-line, double-conversion power conditioning maintains output within 2% of 100/110/120 volts at all times
Overvoltage correction	Maintains output of selected nominal +/-2% during overvoltages to 138V AC
Brownout correction	Maintains output of selected nominal +/-2% during undervoltages to 65V AC (at loads greater than 70% undervoltage correction extends to 80V)

LEDS ALARMS & SWITCHES

Front panel LEDs	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%). LED display panel easily rotates for viewing in rackmount or tower configurations.
Alarms	Multi-function audible alarm with distinctive ring patterns offers notification of backup operation (2 seconds on/0.5 seconds off), low battery warning (1.25 seconds on/0.5 seconds off), overload (sounds continuously), UPS fault (4.2 seconds on/1 second off), input voltage out of frequency (2.1 seconds on/0.14 seconds off) and high input voltage (2.1 seconds on/0.07 seconds off)
Switches	Includes power off/on switch to enable system turn on (press ON switch), UPS battery test (press ON switch during normal AC operation), buzzer silence (press ON switch during battery operation) and OFF (press OFF switch) - all switch functions require that the switch be pressed and held for longer than 2 seconds, but less than 4 seconds

SURGE / NOISE SUPPRESSION

AC surge suppression	480 joules
AC suppression response time	Instantaneous
Dataline suppression	Set of 8-wire RJ-style interface jacks offer surge suppression for network Ethernet or tel/DSL connection. Pins 1,2,3 and 6 offer Ethernet protection starting at 7.5V; the center two wires (pins 4 & 5) offer tel/DSL line suppression starting at 260V
EMI / RFI AC noise suppression	Yes

PHYSICAL

Shipping weight (lbs)	41
Shipping weight (kg)	18.6
Shipping Dimensions (HWD/in)	9.5 x 20 x 24
Shipping Dimensions (HWD/cm)	24.1 x 50.8 x 61
Unit weight (lbs)	29
Unit weight (kg)	13.2
Unit Dimensions (HWD/in)	3.5 x 17.5 x 13.5
Unit Dimensions (HWD/cm)	8.9 x 44.5 x 34.3
Material of construction	Steel
Form factors supported	Rack (2U)
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
Storage Temperature	+5 to +122 degrees Fahrenheit
Relative Humidity	0 to 95%, non-condensing

COMMUNICATIONS

Network monitoring port	Includes USB and DB9 serial ports. Built-in DB9 port offers both enhanced RS-232 enabled monitoring data, plus contact closure monitoring ability. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X.
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 65V (80V at load levels over 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

EPO port	Supports "Emergency Power Off" via dedicated built-in EPO jack
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)	BP24V15RT2U, BP24V28-2U (limit of one per UPS) or BP24V70-3U (multi-pack compatible) external battery packs
CERTIFICATIONS	
Certifications	Tested to UL1778 (USA), CSA C22.2 No. 107.3 (Canada), Class B (Emissions), FCC Part 68 / Industry Canada
WARRANTY	
Product warranty	2-year product 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.

Related Items

Extended Warranties		
WEXT3-500-1500	3-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 1500VA or less	Qty: [optional]
WEXT5-500-1500	5-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 1500VA or less	Qty: [optional]

External Battery Packs		
BP24V28-2U	BP24V28-2U - External Battery Pack for UPS System	Qty: [optional]
BP24V70-3U	BP24V70-3U - External Battery Pack for UPS System	Qty: [optional]
BP24V15RT2U	BP24V15RT2U - External Battery Pack for UPS System	Qty: [optional]

Power Distribution		
PDU1215	Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment	Qty: [optional]
PDU1415	Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment	Qty: [optional]
PDUMH15AT	Metered PDU with ATS - Power Distribution Unit with dual-input Auto Transfer Switching	Qty: [optional]
PDUMH15	Metered PDU / Power Distribution Unit - Safe, reliable power distribution with digital current meter	Qty: [optional]
PDUMV15	Metered PDU / Power Distribution Unit - Safe, reliable power distribution with digital current meter	Qty: [optional]
PDUMH15ATNET	Switched, Metered PDU with ATS - Power Distribution Unit with dual-input Auto Transfer Switching, individual outlet control and remote network interface	Qty: [optional]

Rackmount/Wallmount Kits		
2POSTRMKITWM	Allows for 2 post mounting of Tripp Lite 2U-4U rackmount UPS systems and battery packs	Qty: [optional]

Shutdown Cable Kits		
AS400CABLE KIT	Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers	Qty: [optional]

SNMP Accessories		
ENVIROSENSE	Power Management Tools - Environmental Sensor	Qty: [optional]
SNMPWEBCARD	Power Management Tools - Internal SNMP/Web Card	Qty: [optional]

Surge Protectors		
DTEL2	Network Surge Suppressor - Essential protection for data and communication lines	Qty: [optional]

DNET1	Network Surge Suppressor - Essential protection for data and communication lines	Qty: [optional]
Tower Stands		
2-9USTAND	Tower Stand - Expandable Tower Base Stand UPS Accessory	Qty: [optional]

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