

SmartPro Rack/Tower UPS System

Intelligent, line interactive power management system



Model #: SMART750RML2U

- ▶ 750VA line interactive, extended-run 2U rack / tower UPS
- ▶ Maintains sine-wave 120V nominal output over an input range of 83 to 147V
- ▶ Network communications supported via USB port, serial port, SNMP/Web card slot and EPO interface
- ▶ Current monitoring and switched PDU control via 2 two-outlet load banks
- ▶ Input: NEMA 5-15P (120V 15A) / Output: 6 NEMA 5-15R (120V)
- ▶ 2 year product warranty / \$250,000 Ultimate Lifetime Insurance (USA & Canada only)

DESCRIPTION

Tripp Lite's SMART750RML2U intelligent, line interactive rack/tower uninterruptible power supply prevents data loss, downtime and equipment damage due to power outages, voltage fluctuations and transient surges. Requires only two rack spaces (2U) in a standard rack enclosure. Large internal batteries offer 30 minutes half load runtime and 12.5 minutes at full load. Runtime is expandable with optional BP24V28-2U and BP24V70-3U external battery packs. Maintains regulated 120V nominal output without using battery power during brownouts and overvoltages from 83 to 147V. 750VA / 450 watt power handling capability supports a variety of networking, telecom and other sensitive electronic applications. Includes a total of 6 outlets arranged in 2 load banks that are individually controllable via software interface to reboot select equipment on demand or shed less significant loads to extend battery runtime for more critical equipment. Supports remote monitoring of UPS and site power conditions via built-in USB and DB9 monitoring ports. Includes PowerAlert UPS monitoring and unattended shutdown software with complete cabling. Built-in accessory slot supports SNMP with optional SNMPWEBCARD adapter. Emergency Power Off (EPO) interface offers option for instantaneous power-off of UPS and connected equipment in the case of fire or emergency. Multi-function audible alarms and set of 5 front panel LEDs offer at-a-glance notification of UPS and line power status. Network-grade AC surge suppression protects equipment from damage and performance problems resulting from transient surges and line noise. Attractive all-black color scheme. Two year warranty with \$250,000 connected equipment insurance (USA & Canada only).

KEY BUYING POINTS

- SMART750RML2U line interactive UPS offers voltage regulation and battery support, plus complete AC surge suppression
- Supports 2U rackmount and upright tower applications (2-9U STAND accessory sold separately)
- Full time sine wave output offers guaranteed compatibility with all equipment types
- Supports a max load of 750VA for 12.5 minutes and a half load of 375VA for 30 minutes
- Expandable runtime with BP24V28-2U and BP24V70-3U rack/tower external battery packs
- Maintains regulated 120V nominal output 83 to 147V
- 750VA / 450 watt power handling capability supports a variety of sensitive electronic loads
- Includes 6 UPS supported outlets arranged in 2 individually controllable load banks
- Built in USB and DB9 serial ports support remote monitoring of UPS and site power conditions
- Built in accessory slot supports SNMP with optional SNMPWEBCARD adapter
- Emergency Power Off (EPO) interface with cable
- Multi-function audible alarms and set of 5 front panel LEDs
- Network-grade AC surge suppression
- Attractive all-black color scheme
- UPS battery set ships fully assembled and ready for installation, no time consuming connection of internal batteries by user is necessary
- Two year warranty with \$250,000 connected equipment insurance (USA & Canada only)
- Mounting hardware included for 4 post rackmount enclosures, 2 post telecom rack compatible with separate purchase 2POSTRMKITWM, compatible with upright tower installation with included hardware

TYPICAL APPLICATIONS

- Ideal for the protection of rackmount file servers, network accessories and telecommunications equipment. Common applications include any mix of servers, workstations, hubs, routers, concentrators, IP telephony and traditional PBX switching systems. Line interactive voltage regulation makes this system ideal for locations where severe brownouts and overvoltages are common

OPTIONS & ACCESSORIES

- External battery pack: [BP24V28-2U](#), [BP24V70-3U](#)
- SNMP accessories: [SNMPWEBCARD](#), [ENVIROSENSE](#)
- USB Hubs-accessories: [U202-004-R](#), [U205-004-R](#), [U022-010](#)
- Dataline protectors: [DNET1](#), [DTEL2](#), [DCATV](#)
- Rack enclosures: [Rack Systems](#)
- Circuit Tester: [CT120](#)
- Power distribution: [PDU1215](#), [PS7224](#)
- Tower Stands: [2-9USTAND](#)
- Two Post Rackmount / Wallmount Kit: [2POSTRMKITWM](#)
- Extended warranties: 3 Year [WEXT3-500-1500](#), 5 Year [WEXT5-500-1500](#)

PACKAGE INCLUDES

- SMART750RMXL2U UPS System
- PowerAlert software with USB and DB9 cables
- Mounting hardware for 4 post rackmount installation
- Cable for Emergency Power Off interface
- Instruction manual with warranty information

COMPLETE SPECIFICATIONS

SYSTEM OVERVIEW

System overview:

"750VA line interactive UPS for server, network and telecommunications equipment / 2U rackmount form factor / Corrects brownouts and overvoltages from 83 to 147 / Sine wave output / Uninterruptible Power Supply (UPS) maintains battery derived AC output during blackouts and severe voltage fluctuations / Expandable runtime with optional external battery packs / 6 output receptacles / NEMA 5-15P input plug / Network-grade AC surge and noise suppression / Network management interfaces include USB port, DB9 serial ports and SNMPWEBCARD slot / Supports simultaneous detailed monitoring of equipment load levels, self-test data and mains power conditions via all 3 network interfaces at once / Includes PowerAlert monitoring software and complete cabling / Emergency Power Off (EPO) interface / Integrated 2 bank switched PDU / 3 stage metered current monitoring and battery charge LEDs / Mains power and voltage regulation LEDs / Audible alarm / Self-test / 4 post rack mounting accessories / 2-9USTAND and 2POSTRMKITWM accessories available / Field replaceable, hot swappable internal batteries and battery packs / Attractive all-black UPS design / Two year warranty with \$250,000 connected equipment insurance / Extended warranty and service contracts available "

Voltage compatibility: 120V AC

Frequency compatibility: 60 Hz

OUTPUT

Output volt amp capacity (VA): 750

Output watt capacity (watts): 450

Output nominal voltage: 120V AC

Output voltage regulation:	LINE MODE: Sine wave line voltage 120V (-21% +8%), BATTERY MODE: Sine wave output within 5% of 120VAC
Output frequency regulation:	LINE MODE: Passes line frequency of 60Hz +/-10% BATTERY MODE: Inverter output regulated to 60Hz +/-0.5Hz
Outlet quantity / type:	6 NEMA 5-15R
Customized load management receptacles:	"Includes 2 load banks, each with 2 outlets that support load shedding and remote reboot on demand of locked network devices. Controllable via PowerAlert software to switch off optional loads, like monitors, to increase available runtime for servers and other critical devices. "
Overload protection:	Via 15A input circuit breaker

INPUT

Maximum input amps:	6.8A
Input connection type:	NEMA 5-15P
Input cord length:	10 ft / 3m
Recommended electrical service:	120V 15A

BATTERY

Full load runtime:	12.5 minutes
Half load runtime:	30 minutes
Expandable battery runtime:	Yes, runtime is expandable with optional external rack/tower battery packs BP24V28-2U (limit 1) or BP24V70-3U (multi-pack compatible)
Connects to UPS via:	DC connector
DC system voltage:	24VDC
Typical battery lifespan:	4-6 years (USA typical)
Battery recharge rate:	2-4 hours to 90%
Replacement Battery Cartridge:	RBC92-2U

VOLTAGE REGULATION

Voltage regulation description:	Line-interactive voltage regulation system corrects input voltages between 83 and 147 back to usable 120V nominal levels.
Overvoltage correction:	Input voltages between 128 and 147 are reduced by 12%
Brownout correction:	Input voltages between 83 and 107 are boosted by 14%

LEDS ALARMS & SWITCHES

Front panel LEDs:	5 front panel LEDs - Green POWER LED, 3 color BATTERY CHARGE LED, 3 color OUTPUT LOAD LEVEL LED, red BATTERY WARNING LED.
Alarms:	3 function audible alarm indicates power failure conditions (4 short beeps every 10 seconds), overload (continuous short beeps) and low battery (continuous tone)
Switches:	Includes 2 front panel mounted push-button switches for system enable, self-test and alarm cancel functions

SURGE / NOISE SUPPRESSION

AC surge suppression:	480 joules
AC suppression response time:	Instantaneous
EMI / RFI AC noise suppression:	Yes

PHYSICAL

Shipping weight (lbs):	46
Shipping weight (kg):	20.9
Unit weight (lbs):	35
Unit weight (kg):	15.9

Unit Dimensions (HWD/in):	3.5 x 17.5 x 14.25
Unit Dimensions (HWD/cm):	8.9 x 44.5 x 36.2
Shipping Dimensions (HWD/in):	9.25 x 20 x 24
Shipping Dimensions (HWD/cm):	23.5 x 50.8 x 61
Material of construction:	Steel
Form factors supported:	Rack (2U)
Cooling method:	Built-in cooling fan
Battery Access:	Battery access door allows hot swap battery replacement without powering connected equipment off
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:	Includes 2 built-in monitoring ports, 1-USB & 1-DB9. Each supports on battery, low battery, power restored, AC line voltage, DC battery voltage, load percentage, battery charge current, battery capacity, internal UPS temperature and line frequency status
Software and cabling included:	Includes PowerAlert UPS monitoring software for network and standalone operating systems. Ships with complete USB and DB9 cabling.
SNMP compatibility:	Built-in accessory slot accommodates internal SNMPWEBCARD and other network accessories
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:	2-4 milliseconds
Low voltage transfer to battery power:	83V (resets to line power as line voltage increases to 87V or higher)
High voltage transfer to battery power:	147V (resets to line power as line voltage decreases to 143V or lower)
CERTIFICATIONS	
Certifications:	UL1778 (USA), cUL (Canada), Class B (Emissions), NOM (Mexico)
WARRANTY	
Product warranty:	2 year product warranty
Connected equipment insurance (USA and Canada Only):	\$250,000 connected equipment insurance (USA / Canada only)
Optional coverage:	3 year, 5 year, next day and on-site warranty coverage available
SPECIAL FEATURES	
EPO port:	Includes RJ11 EPO (emergency power off) port and cable
TVSS grounding:	Includes back panel grounding point with thumbscrew for data line surge suppressors and other network accessories requiring a safe grounding point
Cold Start:	Yes, inverter can be "cold started" to enable temporary AC output during a power failure
Appearance:	Attractive all-black color scheme
BATTERY PACK ACCESSORY (optional)	
Battery Pack Accessory (optional):	BP24V28-2U (limit 1) and BP24V70-3U (multi-pack compatible)

*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.*



Tripp Lite World Headquarters
1111 W. 35th Street
Chicago, IL 60609 USA

Customer Support
(773) 869-1234

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