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Model #: SMART750RML2U

SmartPro Rack/Tower UPS System - Intelligent, line interactive power management system

Highlights



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

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

Package Includes

- SMART750RML2U 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

Features

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

Specifications

SYSTEM OVERVIEW	
Voltage compatibility	120V AC
Frequency compatibility	60 Hz
OUTPUT	
Output VA	750
Output 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	Extended runtime available with optional BP24V15RT2U, BP24V28-2U (limit of one per UPS) or BP24V70-3U (multi-pack compatible) external battery packs
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
Shipping Dimensions (HWD/in)	9.25 x 20 x 24
Shipping Dimensions (HWD/cm)	23.5 x 50.8 x 61
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
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	Tested to 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)	BP24V15RT2U, BP24V28-2U (limit of one per UPS) or BP24V70-3U (multi-pack compatible) external battery packs

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.tripplite.com/products/model.cfm?txtModelID=3020.