

SmartPro Rackmount UPS

Line interactive, sine wave UPS with integrated switched PDU and current monitoring



Model #: SMART750RM1U

- ▶ 750VA line interactive 1U rackmount 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 single-outlet load banks
- ▶ Input: NEMA 5-15P (120V 15A) / Output: 6 NEMA 5-15R (120V)
- ▶ \$250,000 Ultimate Lifetime Insurance (USA, Puerto Rico & Canada only)

DESCRIPTION

750VA line interactive UPS for server, network and telecommunications equipment / 1U rackmount form factor / Corrects brownouts and overvoltages from 83 to 147 / Sine wave output in both AC and battery mode / Uninterruptible Power Supply (UPS) maintains battery derived AC output during blackouts and severe voltage fluctuations / NEMA 5-15P input plug / Network-grade AC surge and noise suppression / Network management interfaces includes USB port, DB9 serial port 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 / Supports 2 or 4 post rackmount installation / Field replaceable, hot swappable internal batteries / Attractive all-black UPS design / Two year warranty with \$250,000 connected equipment insurance / Extended warranty and service contracts available

KEY BUYING POINTS

- 750VA / 450 watt output power capacity compatible with North American 120V / 60Hz power
- 1U rackmount UPS installs in standard 2 or 4 post 19 inch racks with a depth of only 16.75 inches
- Protects sensitive networking equipment from blackouts, voltage fluctuations and transient surges
- Line interactive Automatic Voltage Regulation (AVR) corrects inputs from 83-147VAC back to usable 120V levels without consuming battery power
- AVR circuits boost undervoltages by 14% depending on the severity and reduces overvoltages by 12%
- Network interfaces support simultaneous communications via USB, DB9 serial and SNMPWEBCARD slot
- Included PowerAlert UPS monitoring software supports safe unattended shutdown, monitoring and control via local connected servers, plus any number of additional servers over IP
- Communications ports support on-battery, low-battery, power-restored, AC-voltage, DC-voltage, output current monitoring, battery charge current, battery capacity, internal UPS temperature, AC line frequency, timed inverter shutoff, activate self-test and load bank output power control
- Built in Emergency Power Off (EPO) interface with cable
- Sine wave output in AC and battery modes
- Half load runtime of 24 minutes (375VA / 225 watts) / Full load runtime of 7 minutes (750VA / 450 watts)
- Includes 6 NEMA 5-15R output receptacles arranged in 2 switchable single-outlet load banks
- Integrated 2 bank switched PDU enables remote outlet management for load shedding or remote reboot of individual devices
- 3 stage metered LEDs offer current monitoring and battery charge level
- Mains power and voltage regulation LEDs offer at-a-glance power status information
- Front panel switches support self-test and alarm cancel functions
- UPS ships fully assembled in full compliance with DOT regulations, no time consuming connection of internal batteries by user required
- UL (USA), cUL (Canada), NOM (Mexico), FCC Class A (Emissions) listed
- 2 year manufacturer's product warranty, \$250,000 Ultimate Lifetime Insurance

TYPICAL APPLICATIONS

- Ideal for protection of file servers, network accessories and telecommunications equipment in server rooms, internetworking closets, co-location racks, kiosks and a variety of other locations. Common applications include any mix of servers, workstations, hubs, routers, concentrators, IP telephony and traditional PBX switching systems.

OPTIONS & ACCESSORIES

- SNMP accessories: [SNMPWEBCARD](#), [ENVIROSENSE](#)
- USB Hubs-accessories: [U202-004-R](#), [U205-004-R](#), [U022-010](#)
- Dataline protectors: [DNET1](#), [DTEL2](#), [DCATV](#)
- Circuit Tester: [CT120](#)
- Rack enclosures: [Rack Systems](#)
- Power distribution: [PDU1215](#), [PS7224](#)
- Watchdog software: [WATCHDOGSW](#)
- Extended warranties: 3 Year [WEXT3-500-1500](#), 5 Year [WEXT5-500-1500](#)

PACKAGE INCLUDES

- SMART750RM1U UPS System
- Mounting hardware
- Cabling for USB & DB9 monitoring and EPO switching
- PowerAlert unattended shutdown and UPS/Power monitoring software
- Warranty information and instruction manual

COMPLETE SPECIFICATIONS

SYSTEM OVERVIEW

System overview:	SmartPro line interactive 1U rackmount UPS with integrated switched PDU
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 single-outlet load banks 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:	15A input breaker

INPUT

Maximum input amps:	7A
Input connection type:	NEMA 5-15P
Input cord length:	10 ft., 14 gauge
Recommended electrical service:	15A 120V

BATTERY

Full load runtime:	7 minutes (450 watts)
Half load runtime:	24 minutes (225 watts)
DC system voltage:	24 VDC
Typical battery lifespan:	3-6 years, depending on usage
Battery recharge rate:	2-4 hours to 90%
Replacement Battery Cartridge:	RBC64-1U

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:	Yes, 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):	34
Shipping weight (kg):	15.4
Unit weight (lbs):	30
Unit weight (kg):	13.6
Unit Dimensions (HWD/in):	1.75 x 17.5 x 16.75
Unit Dimensions (HWD/cm):	4.45 x 44.5 x 42.5
Shipping Dimensions (HWD/in):	6.25 x 23.5 x 22.5
Shipping Dimensions (HWD/cm):	15.9 x 60 x 57.2
Material of construction:	Steel
Form factors supported:	Rack/Tower (1U)
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
Line mode BTU/hr. (Max.):	39.2
Battery mode BTU/hr. (Max.):	133.0

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 messaging. Interface supports timed inverter shutoff after unattended shutdown, activate self-test and 10 second reboot of connected equipment. Supports reboot of all connected devices at once or individual load banks via software interface. Compatible with Tripp Lite's PowerAlert and WatchDog software.

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 SNMP / Web card and other network accessories

WatchDog compatibility: Compatible with Tripp Lite's Watchdog Software 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), cJUL (Canada), Class A (emissions), NOM (Mexico)

WARRANTY

Optional coverage: 3 year, 5 year, next day and on-site warranty coverage available for select opportunities

Product warranty: 2 year product warranty

Connected equipment insurance (USA and Canada Only): \$250,000 connected equipment insurance (USA / Canada only)

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 black color scheme

*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.*



© 2006 Tripp Lite. All Rights Reserved.