SmartPro Expandable Rack/Tower UPS System

Line-interactive, sine wave power management system for networks

Model #: SMART5000RT3U

- 5000VA line-interactive 3U rack/tower UPS (includes 3U battery pack—6U installed)

- Enhanced communication ports (2 x USB, 2 x DB9), slot for SNMP/Web card, free PowerAlert Software and cabling,

- Maintains 208V & 120V output during brownouts and overvoltages from 151 to 282V

- 14 outlets (10 x 5-15R, 2 x 5-20R, 1 x L6-30R, 1 x L14-30R)

- Full-time sine wave output; expandable runtime

- $250,000 Ultimate Lifetime Insurance (USA & Canada only)

Enterprise Assistance

E-mail us your critical extended run application requirements for large kVA and extended run UPS Systems and we will research the ideal solution and provide a custom configuration.

Contact a Tripp Lite Product Specialist

DESCRIPTION

Tripp Lite's line-interactive SMART5000RT3U UPS System protects server, networking or telecommunications equipment from blackouts, voltage fluctuations and surges in a compact tower/rackmount housing. In rack configuration, the power module and battery pack occupy only 3 rack spaces (3U) each. Large capacity 5000VA/4000W power module converts raw 208V AC input to fully regulated dual output 208/120 voltage for simultaneous protection of both high- and low-voltage equipment loads. True sine wave output at all times offers guaranteed compatibility with all equipment types. Includes 14 outlets, 8 of which can be individually reset 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 with additional external 3U rackmount battery packs. Includes slot for internal SNMP/web card, plus two DB9 and two USB enhanced monitoring ports for unattended shutdown, remote control and monitoring of UPS system and power data.

KEY BUYING POINTS

- Large 5000VA/4000W output capacity with full-time sine wave output offers guaranteed compatibility with all equipment types
- High power density 5kVA power module and battery pack occupy only 3 rack spaces (3U) each (UPS and battery pack require 6U total installed)
- 38 min. half load runtime, expandable with multiple external battery packs (part# BP48V60RT3U)
- Line-interactive voltage regulation corrects severe brownouts and overvoltages without using battery power
- Dual voltage output is simultaneously compatible with both 208V and 120V equipment
- 14 total outlets (120V: 10 x 5-15R, 2 x 5-20R / 208V: 1 x L6-30R, 1 x L14-30R)
- Diagnostic LEDs provide visual indication of 17 separate performance conditions
- Included PowerAlert Software provides e-mail notification of power problems and simultaneous automatic unattended shutdown of multiple servers
- 4 built-in communications ports (2 x DB9, 2 x USB) for remote monitoring and unattended shutdown
- Slot for SNMP/web card SNMPWEBCARD and environmental sensor ENVIROSENSE for remote communications in large IP environments
- 8 customized load management receptacles can be individually powered off and back on again via software interface to reboot remote equipment or perform "load shedding" of less critical loads to extend battery runtime for the most critical equipment
- Emergency Power Off (EPO) interface for emergency shutoff in large facilities
- Hot-swappable/user replaceable batteries allow on-site battery replacement through the front panel without powering off connected equipment or removing the UPS from the rack

- UPS battery set ships fully assembled and ready for connection to the power module, no time consuming, connection of individual internal batteries by user is necessary
- $250,000 Ultimate Lifetime Insurance (USA & Canada Only). No warranty cards required for coverage!
- NAFTA compliant
- 2-year manufacturer's product warranty

TYPICAL APPLICATIONS

- Ideal for centralized UPS protection of critical 208V and 120V equipment in server rooms, internetworking closets and telecommunications systems in rackmount or tower applications. Common applications include any mix of servers, workstations, hubs, routers, concentrators, IP telephony and traditional PBX switching system

OPTIONS & ACCESSORIES

- External battery pack: BP48V60RT3U
- SNMP accessories: SNMPWEBCARD, ENVIROSENSE
- Dataline protectors: DNET1, DTEL2, DCATV
- Tower Stands: 2-9USTAND
- Rack enclosures: Rack Systems
- Extended warranties: 3 Year WEXT3-5000, 5 Year WEXT5-5000

PACKAGE INCLUDES

- SMART5000RT3U UPS System
- BP48V60RT3U battery pack
- PowerAlert Software and cabling
- Mounting hardware
- Instruction manual with warranty information

COMPLETE SPECIFICATIONS

SYSTEM OVERVIEW

System overview:	Line-interactive 3U power module with 3U battery pack protects internetworking and telecommunications equipment from blackouts, brownouts, overvoltages, surges and line noise. Maintains AC output during blackouts and continuously corrects brownouts and overvoltages from back to normal 208/120V levels. Supports enhanced monitoring of UPS and line power conditions via 2 USB and 2 DB9 serial ports, included PowerAlert monitoring software and complete cabling. Supports tower applications with 2-9USTAND accessory. Includes slot for SNMPWEBCARD and 8 individually controllable output load banks. Runtime is expandable with BP48V60RT3U battery packs.
Voltage compatibility:	208V AC
Frequency compatibility:	60 Hz

OUTPUT

Output volt amp capacity (VA):	5000
Output watt capacity (watts):	4000
Output nominal voltage:	208/120V AC
Output voltage regulation:	LINE MODE: Sine wave line voltage 208V (-10% +20%) plus 120V nominal BATTERY MODE: Sine wave output within +/-5% of 208V / 120V nominal
Output frequency regulation:	LINE MODE: Passes line frequency of 60Hz +/-10% BATTERY MODE: Inverter output regulated to 60Hz +/-0.5Hz
Outlet quantity / type:	10 x NEMA 5-15R, 2 x NEMA 5-20R, 1 x NEMA L6-30R, 1 x NEMA L14-30R

Customized load management receptacles:	8 individually controllable outlets 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:	Resettable circuit breaker (3 total, 15A each)

INPUT

Maximum input amps:	4560 watts
Input connection type:	NEMA L6-30P
Input cord length:	10 ft., 10 gauge
Recommended electrical service:	30A 208V

BATTERY

Full load runtime:	16 min. (5000VA), add 1 BP48V60RT3U for 38 min.
Half load runtime:	38 min. (2500VA), add 1 BP48V60RT3U for 86 min.
Expandable battery runtime:	Supports extended runtime with optional external battery packs BP48V242U (limit 1) and BP48V60RT3U (multi-pack compatible)
DC system voltage:	48V DC
Typical battery lifespan:	3-6 years, depending on usage
Battery recharge rate:	2-4 hours to 90%

VOLTAGE REGULATION

Voltage regulation description:	Line-interactive UPS offers 2 boost levels of brownout correction and a single level of overvoltage adjustment to maintain usable, computer grade output without consuming battery power
Overvoltage correction:	Input voltages between 240V and 282V AC are reduced by 12%
Direct pass through:	Input voltages between 200V and 239V AC are passed through to equipment unchanged
Brownout correction:	Input voltages between 180V and 199V AC are boosted by 12%
Severe brownout correction:	Input voltages between 151V and 179V AC are boosted by 24%

LEDS ALARMS & SWITCHES

Front panel LEDs:	5 front panel LEDs — Green POWER LED, Green VOLTAGE CORRECTION LED, 3 color BATTERY CHARGE LED, 3 color OUTPUT LOAD 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:	2 front panel mounted push-button switches for system enable, self-test and alarm cancel functions

SURGE / NOISE SUPPRESSION

AC surge suppression:	1020 joules
AC suppression response time:	Instantaneous
EMI / RFI AC noise suppression:	Yes

PHYSICAL

Shipping weight (lbs):	320
Shipping weight (kg):	145.3
Unit weight (lbs):	Power Module: 93 lbs. / Battery pack: 135 lbs.
Unit weight (kg):	Power Module: 42.2kg / Battery Pack: 61.3kg
Unit Dimensions (HWD/in):	Power Module 5.25 x 17.5 x 22.5, Battery Pack 5.25 x 17.5 x 22.75
Unit Dimensions (HWD/cm):	Power Module 13.3 x 44.5 x 57.2, Battery Pack 13.3 x 44.5 x 57.8
Material of construction:	Steel
Form factors supported:	Rack (6U)

Cooling method:	Built-in dual cooling fans
Battery Access:	Includes 1 BP48V60RT3U external battery pack. External battery packs may be disconnected and replaced while the UPS is running connected loads in line power mode.

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:	4 built-in monitoring ports, 2 xUSB & 2 x 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 via software interface. Compatible with Tripp Lite's PowerAlert software.
Software and cabling included:	Includes PowerAlert UPS monitoring software for all common network and standalone operating systems. Ships with 4 cables, 2 x USB & 2 x DB9
SNMP compatibility:	Built-in accessory slot accommodates internal SNMP / Web card 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 applications / 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:	Switches to battery power when line voltage drops to 151. Resets back to AC mode when line voltage increases to 159.
High voltage transfer to battery power:	Switches to battery power when line voltage increases to 282. Resets back to AC mode when line voltage decreases to 274.

CERTIFICATIONS

Certifications:	UL1778 (USA), cUL (Canada), FCC Class A (emissions), NOM (Mexico), NAFTA compliant

WARRANTY

Product warranty:	2 years
Connected equipment insurance (USA and Canada Only):	$250,000
Optional coverage:	3-year, 5-year, next-day and on-site warranty coverage available for select opportunities - contact Tripp Lite

SPECIAL FEATURES

EPO port:	Includes RJ11 EPO (emergency power off) port and interconnection cable
TVSS grounding:	Includes back panel grounding point with thumbscrew for data line surge suppressors and other network accessories requiring a chassis grounding point.
Cold Start:	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):	BP48V60RT3U (Optional, 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.