



## Model #: SMART3000RM2U

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

#### Highlights

- 3000VA 120V 60Hz Sine Wave 2U Expandable Rack/Tower UPS
- Battery Independent, Dual Boost AVR Corrects Brownouts to 79V and Overvoltages to 147V
- Multiple interfaces - 2 USB, 2 DB9 and SNMPWEBCARD Slot
- Integrated Switched PDU with Current Monitoring and 3 Controllable Load Banks
- 9 Outlets (4 5-15R / 4 5-15/20R / 1 L5-30R), NEMA L5-30P input



#### Description

3000VA line interactive UPS for server, network and telecommunications equipment/2U rackmount form factor/Corrects brownouts and overvoltages from 79 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/9 output receptacles/NEMA L5-30P input plug /Network-grade AC surge and noise suppression/Network management interfaces include 2 USB ports, 2 DB9 serial ports and SNMPWEBCARD slot/Supports simultaneous detailed monitoring of equipment load levels, self-test data and mains power conditions via all 5 network interfaces at once/Includes PowerAlert monitoring software and complete cabling/Emergency Power Off (EPO) interface/Integrated 3 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/2-9U STAND and 2POSTRMKIT accessories available/Field replaceable, hot swappable internal batteries and battery packs/Attractive all-black UPS design/

#### Applications

Ideal for protection of sensitive electronics in any application calling for upright tower or 19 inch rackmount UPS protection. Common applications include any mix of servers, workstations, hubs, routers, concentrators, IP telephony and traditional PBX switching systems.

#### Package Includes

- SMART3000RM2U
- PowerAlert Software and cabling
- Mounting hardware for 4 post rackmount installation
- Warranty information
- Instruction manual

#### Features

- 3000VA / 2250 watt output power capacity compatible with North American 120V / 60Hz power
- 2U rack/tower UPS installs in standard 19 inch rack enclosures with an installed depth of only 18 inches
- Protects sensitive networking equipment from blackouts, voltage fluctuations and transient surges
- Line interactive Automatic Voltage Regulation (AVR) corrects inputs from 79-147VAC back to usable 120V levels without consuming battery power
- Dual boost AVR circuits boost undervoltages by 14% or 24% depending on the severity and reduces overvoltages by 12%

Network interfaces support simultaneous communications via 2 USB, 2 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

Expandable runtime with optional battery packs â€" BP48V24-2U (limit 1) and BP48V60RT-3U (multi-pack compatible)

Half load runtime of 11 minutes (1125 watts)

Full load runtime of 4 minutes (2250 watts)

Includes 9 output receptacles arranged in 3 load banks (4 NEMA 5-15R / 4 NEMA 5-15/20R / 1 NEMA L5-30R)

NEMA L5-30P input plug

Integrated 3 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

Included UPSRMR II adjustable mounting rails support installation in 19 inch racks with a front-to-rear depth of 23.5 and 36.5 inches (add a 2nd UPSRMR II accessory to extend the reach to 35.25 to 49.5 inches)

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

Supports 2 post rackmount and wallmount installation with optional 2POSTRMKITWM accessory

Supports upright tower placement with optional 2-9USTAND accessory

UL (USA), cUL (Canada), NOM (Mexico), FCC Class A (Emissions) listed

2 year manufacturer's product warranty.

## Specifications

SYSTEM OVERVIEW	
<b>Voltage compatibility</b>	120V AC
<b>Frequency compatibility</b>	60 Hz
OUTPUT	
<b>Output VA</b>	3000
<b>Output watts</b>	2250
<b>Output nominal voltage</b>	120V AC
<b>Output voltage regulation</b>	LINE MODE: Sine wave line voltage 120V (-18% / +8%)
<b>Output frequency regulation</b>	LINE MODE: Passes line frequency of 60Hz +/-10%
<b>Outlet quantity / type</b>	4 NEMA 5-15R, 4 NEMA 5-15/20R and 1 NEMA L5-30R
<b>Customized load management receptacles</b>	3 single outlet load banks with integrated switched PDU supports 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.
<b>Overload protection</b>	Resettable circuit breaker
INPUT	
<b>Maximum input amps</b>	24A
<b>Input connection type</b>	NEMA L5-30P
<b>Input cord length</b>	10 ft., 10 gauge
<b>Recommended Electrical Service</b>	30A 120V
BATTERY	

<b>Full load runtime</b>	4 minutes (3000VA)
<b>Half load runtime</b>	11 minutes (1500VA)
<b>Expandable battery runtime</b>	Supports extended runtime with optional external battery packs BP48V242U (limit 1) and BP48V60RT3U (multi-pack compatible)
<b>DC system voltage</b>	48V DC
<b>Typical battery lifespan</b>	3-6 years, depending on usage
<b>Battery recharge rate</b>	6.5 hours
<b>Replacement Battery Cartridge</b>	RBC94-2U
<b>VOLTAGE REGULATION</b>	
<b>Voltage regulation description</b>	Automatic Voltage Regulation (AVR) circuits maintain clean, regulated computer-grade 120V nominal output, without using battery power, during brownouts to 79V and overvoltages to 147V
<b>Overvoltage correction</b>	Input voltages between 128 and 147V AC are reduced by 12%
<b>Direct pass through</b>	Input voltages between 105 and 127V AC are passed on to connected equipment unchanged
<b>Brownout correction</b>	Input voltages between 95 and 104V AC are boosted by 12%
<b>Severe brownout correction</b>	Input voltages between 79 and 94V AC are boosted by 24%
<b>LEDS ALARMS &amp; SWITCHES</b>	
<b>Front panel LEDs</b>	5 front panel LEDs à Green POWER LED, Green VOLTAGE CORRECTION LED, 3 color BATTERY CHARGE LED, 3 color OUTPUT LOAD LED, red BATTERY WARNING LED
<b>Alarms</b>	3 function audible alarm indicates power failure conditions (4 short beeps every 10 seconds), overload (continuous short beeps) and low battery (continuous tone)
<b>Switches</b>	Yes, includes 2 front panel mounted push-button switches for system enable, self-test and alarm cancel functions
<b>SURGE / NOISE SUPPRESSION</b>	
<b>AC surge suppression</b>	480 joules
<b>AC suppression response time</b>	Instantaneous
<b>EMI / RFI AC noise suppression</b>	Yes
<b>PHYSICAL</b>	
<b>Shipping weight (lbs)</b>	72
<b>Shipping weight (kg)</b>	32.7
<b>Shipping Dimensions (HWD/in)</b>	9 x 23.5 x 20
<b>Shipping Dimensions (HWD/cm)</b>	22.9 x 59.7 x 50.8
<b>Unit weight (lbs)</b>	64
<b>Unit weight (kg)</b>	29.1
<b>Unit Dimensions (HWD/in)</b>	3.5 x 17.5 x 19
<b>Unit Dimensions (HWD/cm)</b>	8.89 x 44.5 x 48.3
<b>Material of construction</b>	Steel

<b>Form factors supported</b>	Rack (2U)
<b>Cooling method</b>	Built-in cooling fan
<b>Battery Access</b>	Battery access door allows hot swap battery replacement without powering connected equipment off
<b>ENVIRONMENTAL</b>	
<b>Operating Temperature</b>	+32 to +104 degrees Fahrenheit 0 to +40 degrees Celsius
<b>Storage Temperature</b>	+5 to +122 degrees Fahrenheit -15 to +50 degrees Celsius
<b>Relative Humidity</b>	0 to 95%, non-condensing
<b>Line mode BTU/hr. (Max.)</b>	327.4 / BTU / hr.
<b>COMMUNICATIONS</b>	
<b>Network monitoring port</b>	Includes 4 built-in monitoring ports, 2-USB & 2-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
<b>Software and cabling included</b>	Includes PowerAlert UPS monitoring software for all common network and standalone operating systems. Ships with 4 cables, 2-USB & 2-DB9
<b>SNMP compatibility</b>	Built-in accessory slot accommodates internal SNMP / Web card and other network accessories
<b>WatchDog compatibility</b>	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
<b>LINE / BATTERY TRANSFER</b>	
<b>Transfer time from line power to battery mode</b>	2-4 milliseconds
<b>Low voltage transfer to battery power</b>	79V (resets to line power as voltage increases to 83V)
<b>High voltage transfer to battery power</b>	147V (resets to line power as voltage decreases to 144V)
<b>SPECIAL FEATURES</b>	
<b>EPO port</b>	Includes RJ11 EPO (emergency power off) port and interconnection cable
<b>TVSS grounding</b>	Includes back panel grounding point with thumbscrew for data line surge suppressors and other network accessories requiring a safe grounding point
<b>Cold Start</b>	Yes, inverter can be "cold started" to enable temporary AC output during a power failure
<b>Appearance</b>	Attractive gray rackmount housing, optional use 2U black front bezel included to enable black color appearance
<b>BATTERY PACK ACCESSORY (optional)</b>	
<b>Battery Pack Accessory (optional)</b>	BP48V24-2U (limit 1) and BP48V60RT3U (multi-pack compatible)
<b>CERTIFICATIONS</b>	
<b>Certifications</b>	Tested to UL1778 (USA), cUL (Canada), FCC Class A (emissions), NOM (Mexico)
<b>WARRANTY</b>	
<b>Product warranty</b>	2 year product warranty
<b>Optional coverage</b>	3 year, 5 year, next day and on-site warranty coverage available for select opportunities - contact Tripp Lite

## Related Items

Audio Cables

CT120	Instant-Read- AC Outlet Circuit Tester	Qty: [optional]
<b>Extended Warranties</b>		
WEXT3-2200-3000	3-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 2200-3000VA	Qty: [optional]
WEXT5-2200-3000	5-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 2200-3000VA or less	Qty: [optional]
<b>External Battery Packs</b>		
BP48V24-2U	BP48V242U - External Battery Pack for UPS System	Qty: [optional]
BP48V60RT-3U	External Battery Pack and Cable. 3U, Expandable, Blue 2-Point Connector	Qty: [optional]
<b>Power Distribution</b>		
PS7224-20	Tripp Lite Power Strip - Multiple outlets wherever you need them	Qty: [optional]
PDU1220	Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment	Qty: [optional]
<b>Rackmount/Wallmount Kits</b>		
2POSTRMKITWM	Allows for 2 post mounting of Tripp Lite 2U-4U rackmount UPS systems and battery packs	Qty: [optional]
<b>SNMP Accessories</b>		
ENVIROSENSE	Power Management Tools - Environmental Sensor	Qty: [optional]
SNMPWEBCARD	Power Management Tools - Internal SNMP/Web Card	Qty: [optional]
<b>Surge Protectors</b>		
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]
DCATV	Network Surge Suppressor - Essential protection for TV/VCR coaxial lines	Qty: [optional]
<b>Tower Stands</b>		
2-9USTAND	Tower Stand - Expandable Tower Base Stand UPS Accessory	Qty: [optional]
<b>USB Hubs/Accessories</b>		
U022-010	USB Cable - 10-ft. USB 2.0 AB Gold Device Cable	Qty: [optional]