

## SmartPro 120V 2.2kVA 1.92kW Line-Interactive Sine Wave UPS, 2U, Extended Run, Network Card Options, LCD, USB, DB9

### MODEL NUMBER: SMART2200RMXL2U





#### Description

Tripp Lite SmartPro Line Interactive UPS with enhanced LCD interface offers network-grade power protection for critical server, network and telecommunications equipment. Line Interactive Uninterruptible Power Supply (UPS) with built-in Auto-Voltage Regulation (AVR) actively corrects brownouts and overvoltages back to usable levels while maintaining a full battery charge in case of power failure. Tripp Lite's unique configuration excels in exceptionally poor-power environments with two separate levels of voltage boost to correct both slight undervoltages and severe brownout conditions. Interactive LCD interface reports UPS operating mode, detailed UPS and site-power data, plus enables a variety of UPS setup and configuration options. Super-fast switchover from line to battery power occurs within milliseconds to maintain operation of connected equipment without interruption or reboot. 96% line-mode efficiency offers reduced heat emissions and operating costs. Network management interfaces support communications via USB, RS-232 and slot for optional Network Management Card. HID-compliant USB port enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Network communications ports enable detailed monitoring of equipment load levels, self-test data and utility power conditions. PowerAlert UPS monitoring software is available via free download. Switched output load banks enable scheduled and real-time remote reboot and load shedding of select outlets. Emergency Power Off (EPO) interface. LCD display panel easily rotates for viewing in rackmount or tower configurations. Audible alarm with push-button momentary alarm-cancel and silent-mode configuration options. Programmable self-test. Field-replaceable, hot-swappable battery modules.

#### Features

- Tripp Lite SMART2200RMXL2U line interactive 2U rack/tower UPS with 2200VA / 2.2kVA / 1920W capacity and extended runtime options
- Line interactive UPS with Automatic Voltage Regulation (AVR) corrects brownouts and overvoltages from 83 to 145V
- NEMA 5-20P input plug; 4 NEMA 5-15/20R and 4 5-15R output receptacles, Two independently switched output load banks
- Maintains uninterrupted operation of connected networking equipment during blackouts, surges, brownouts and overvoltages
- High 96% efficiency rating in line-power mode offers reduced power consumption and BTU emisssions
- Internal batteries offer 12 minutes at 50% load (960W) and 4.5 minutes at 100% load (1920W)
- Extended runtime is available with optional BP48V24-2U (limit 1), BP48V60RT-3U (multi-pack

#### Highlights

- 2.2kVA / 2200VA / 1920W line interactive 2U rack/tower UPS, Sine Wave
- Extended runtime options up to 1600W, 0.9 Power Factor, 4 post mounting kit
- USB, RS232, EPO and slot for network management card options
- 120V NEMA 5-20P input, 4 NEMA 5-15R & 4 NEMA 5-15/20R outlets

#### **Package Includes**

- SMART2200RMXL2U UPS system
- USB, Serial & EPO cabling
- 4 post installation kit
- · Owner's manual



compatible) and BP48V27-2US (multi-pack compatible), Output is reduced to 1600 watts maximum with external battery packs

- External battery configurations require the use of Tripp Lite's External Battery Configuration Software (see manual)
- Hot-swappable, user-replaceable internal batteries and external battery packs can be replaced with no disruption to connected equipment
- Intelligent battery management system extends battery life
- Front panel LCD monitoring screen with MODE and ENTER buttons reports operating mode with 5-bar battery charge graphic, plus 7 selectable screens of detailed UPS and site power information
- LCD interface also supports a number of advanced user setup and operating preferences
- Ships with 4 post rackmount installation hardware; Optional 2POSTRMKITWM enables 2 post rackmount/wallmount installation; Optional 2-9USTAND enables tower placement
- Built-in USB, RS-232 and slot for Network Management Card option; Compatible with Tripp Lite UPS management card options TLNETCARD, WEBCARDLX and SNMPWEBCARD
- HID-compliant USB port enables integration with built-in power management and auto shutdown features of Windows and Mac OS X
- USB & Serial ports enable data-saving unattended shutdown when used with Tripp Lite's PowerAlert software, available via FREE download from <u>www.tripplite.com/poweralert</u>
- Built-in Emergency Power Off (EPO) interface with cable

# **Specifications**

OVERVIEW	
UPC Code	037332118059
UPS Type	Line-Interactive
INPUT	
Rated input current (Maximum Load)	16.0A
Nominal Input Voltage(s) Supported	120V AC
UPS Input Connection Type	5-20P
UPS Input Cord Length (ft.)	10
UPS Input Cord Length (m)	3.1
Recommended Electrical Service	20A 120V
Input Phase	Single-Phase
OUTPUT	
Output Volt Amp Capacity (VA)	2200
Output Capacity (kVA)	2.20
Output Watt Capacity (Watts)	1920
Output kW Capacity (kW)	1.92
Output Capacity Details	Output is reduced to 1600 watts maximum when used with external battery packs
Power Factor	0.87



href="//www.tripplite.com/External-48V-3U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems~BP48V60RT-3U">BP48V60RT-3U     Systems~BP48V60RT-3U">BP48V60RT-3U     DC System Voltage (VDC)     48     Battery Recharge Rate (Included Batteries)     Less than 4.5 hours from 10% to 90% (typical, full load discharge)     Front panel battery access door		
Output Voltage Regulation (Line Mode)     -14%, +6%       Output Voltage Regulation (Battery Mode)     +/. 5%       Load Management Receptacles     Two switched single outlet load banks (1 5-15/20R & 1 5-15R)       Output AC Waveform (AC Mode)     Pure Sine wave       Output AC Waveform (Battery Mode)     Pure Sine wave       Output AC Waveform (Battery Mode)     110V; 115V; 120V       Output AC Baselong     (4) 5-15R; (4) 5-15/20R       Individually Controllable Load Banks     Yes       BATTERY     Valve Regulated Lead Acid (VRLA)       Battery Type     Valve Regulated Lead Acid (VRLA)       Full Load Runtime (min.)     12 min. (1920w)       Half Load Runtime (min.)     12 min. (960w)       Expandable Battery Runtime     Extended runtime supported via optional external battery packs       Expandable Runtime Description     Maximum output capacity is 1600 watts when used with external battery packs       External Battery Pack Compatibility Cashing-select-UPS - Stress-Package-Pack-Tower-Battery-Pack-Foroburg-UPS-Stress-Package-Pack-Tower-Battery-Pack-Foroburg-UPS-Stress-Package-Pack-Tower-Battery-Pack-Foroburg-UPS-Stress-Package-Pack-Tower-Battery-Pack-Foroburg-UPS-Stress-Package-Pack-Tower-Battery-Pack-For-UPS-Stress-Package-Pack-Tower-Battery-Pack-Foroburg-UPS-Stress-Package-Pack-Tower-Battery-Pack-Foroburg-UPS-Stress-Package-Pack-Tower-Battery-Pack-For-UPS-Stress-Package-Pack-Tower-Battery-Pack-F	Nominal Voltage Details	120v nominal output in battery mode
Mode) 14%, 40%   Output Voltage Regulation (Battery Mode) +/- 5%   Load Management Receptacles Two switched single outlet load banks (1 5-15/20R & 1 5-15R)   Output AC Waveform (AC Mode) Pure Sine wave   Output AC Waveform (Battery Mode) Pure Sine wave   Output AC Waveform (Battery Mode) Pure Sine wave   Output AC Waveform (Battery Mode) 110V: 115V: 120V   Output AC Waveform (Battery Mode) 110V: 115V: 120V   Output Recoptacles (4) 5-15R: (4) 5-15/20R   Individually Controllable Load Banks Yes   Battery Pure Sine wave Valve Regulated Lead Acid (VRLA)   Full Load Runtime (min.) 4.5 min. (1920w)   Half Load Runtime (min.) 12 min. (960w)   Expandable Battery Runtime Yes   Expandable Runtime Yes   Expandable Runtime Yes   External Battery Pack Compatibility Castieng-ReselveLPS Systems—PB4SY027.21/20-840459, (IIIII 1), Marbs 2:a disas="product.link" Intel="//www.thtplite.com/External-440-22/20-840459, (IIIII 1), Marbs 2:a disas="product.link" Intel="//www.thtplite.com/External-440-22/20-840459, (IIIII 1), Marbs 2:a disas="product.link" Intel="//www.thtplite.com/External-440-22/20-840459, (IIIII), Sabsystems—BP48V027.21/20-840459, (IIIII), Marbs 2:a disas="product.link" Intel="//www.thtplite.com/External-440-22/20-840459, (IIIII), Marbs 2:a disas="product.link" Intel="//www.thtplite.com/External-440-22/20-840459, (IIIII), Marbs 2:a disas="product.link" Intel="//www.thtplite.com/External-44	Frequency Compatibility	60 Hz
Mode)     Mode       Laad Management Receptacles     Two switched single outlet load banks (1 5-15/20R & 1 5-15R)       Output AC Waveform (AC Mode)     Pure Sine wave       Output AC Waveform (Battery Mode)     Pure Sine wave       Nominal Output Voltage(s)     110V: 115V: 120V       Output AC moveform (Battery Mode)     110V: 115V: 120V       Output Receptacles     (4) 5-15R: (4) 5-15/20R       Individually Controllable Load Banks     Yes       Battery Type     Valve Regulated Lead Acid (VRLA)       Full Load Runtime (min.)     4.5 min. (1920w)       Half Load Runtime (min.)     12 min. (960w)       Expandable Battery Runtime     Extended runtime supported via optional external battery packs       Expandable Runtime     Yes       Expandable Runtime output capacity is 1600 watts when used with external battery packs     Extended runtime supported via optional external battery packs       External Battery Pack Compatibility Battery Rackarge Rate (Included     Maximum output capacity is 1600 watts when used with external battery packs Enclosure Cabling-select-UPS-ysterms-PB48/V2-2U-SaP48/024-2		-14%, +6%
Output AC Waveform (AC Mode)     Pure Sine wave       Output AC Waveform (Battery Mode)     Pure Sine wave       Nominal Output Voltage(s)     110V: 115V: 120V       Supported     (4) 5-15R; (4) 5-15/20R       Individually Controllable Load Banks     Yes       BATTERY     Battery Type       Valve Regulated Lead Acid (VRLA)     Full Load Runtime (min.)       4.5 min. (1920w)     122 min. (960w)       Expandable Battery Runtime     Extended runtime supported via optional external battery packs       Expandable Runtime Description     Maximum output capacity is 1600 watts when used with external battery packs       External Battery Pack Compatibility Systems-BP48V2PA2-2U-asAbsp; (imit 1); Antsp:-ca class="productLink" href="//www.tipplite.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosur Cabling-select-UPS-Systems-BP48V2PA2-2U-asAbsp; (imit 1); Antsp:-ca class="productLink" href="//www.tipplite.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosur-Cabling-select-UPS- Systems-BP48V60RT-3U-2BP48V60RT-3U-2BP48V62RT-3U-2BP48V2A2-UPS-Asbsp; (imit 1); Antsp:-ca class="productLink" href="//www.tipplite.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosur-Cabling-select-UPS- Systems-BP48V60RT-3U-2BP48V60R		+/- 5%
Unique AC     Very Sine wave       Nominal Output Voltage(s)     110V; 115V; 120V       Output AC     (4) 5-15R; (4) 5-15/20R       Individually Controllable Load Banks     Yes       BATTERY     Battery Type       Battery Type     Valve Regulated Lead Acid (VRLA)       Full Load Runtime (min.)     4.5 min. (1920w)       Half Load Runtime (min.)     4.5 min. (1920w)       Half Load Runtime (min.)     12 min. (960w)       Expandable Battery Runtime     Extended runtime supported via optional external battery packs       Expandable Runtime     Yes       Expandable Runtime     Yes       External Battery Pack Compatibility     Anbsp:-ca class="productLink" href="//www.tipplite.com/External-48V-2U-Rack-Toolsure-DC-Cabling-select-UPS-Systems-BP449(VGR-T-3U-2-BARDS); (multi-pack-Enclosure-DC-Cabling-select-UPS-Systems-BP449(VGR-T-3U-2-BARDS); (multi-pack-foolsure-DC-Cabling-select-UPS-Systems-BP449(VGR-T-3U-2-BARDS); (multi-pack-foolsure-DC-Cabling-select-UPS-Systems-BP449(VGR-T-3U-2-BARDS); (multi-pack-foolsure-DC-Cabling-select-UPS-Systems-BP449(VGR-T-3U-2-BARDS); (multi-pack-foolsure-DC-Cabling-select-UPS-Systems-BP449(VGR-T-3U-2-BARDS); (multi-pack-foolsure-DC-Cabling-select-UPS-Systems-BP449(VGR-T-3U-2-BARDS); (multi-pack-foolsure-DC-Cabling-select-UPS-Systems-BP449(VGR-T-3U-2-BARDS); (multi-pack-foolsure-DC-Cabling-select-UPS-Systems-BP449(VGR-T-3U-2-BARDS); (multi-pack-foolsure-DC-Cabling-select-UPS-Systems-BP449(VGR-T-3U-2-BARDS); (multi-pack-foolsure-PC-Cabling-select-	Load Management Receptacles	Two switched single outlet load banks (1 5-15/20R & 1 5-15R)
Mode)     Puter Sine wave       Nominal Output Voltage(s)     110V; 115V; 120V       Output Receptacles     (d) 5-15F; (d) 5-15/20R       Individually Controllable Load Banks     Yes       BATTERY     Battery Type       Battery Type     Valve Regulated Lead Acid (VRLA)       Full Load Runtime (min.)     4.5 min. (1920w)       Half Load Runtime (min.)     12 min. (960w)       Expandable Battery Runtime     Extended runtime supported via optional external battery packs       Expandable Runtime     Yes       Expandable Runtime Description     Maximum output capacity is 1600 watts when used with external battery packs       External Battery Pack Compatibility     & h5ps; rad cass="product.Link" href="//www.tripplite.com/Ztv/a/as/hsps./mint1?, & hsps./sa class="product.Link" href="//www.tripplite.com/Ztv/a/as/hsps./mint1.sa class/as/as/bsp./mint1?, & hsps./sa class="product.Link" h	Output AC Waveform (AC Mode)	Pure Sine wave
Supported 1007, 1159, 1200   Output Receptacles (4) 5-15R; (4) 5-15/20R   Individually Controllable Load Banks Yes   BATTERY   Battery Type Valve Regulated Lead Acid (VRLA)   Full Load Runtime (min.) 4.5 min. (1920w)   Half Load Runtime (min.) 12 min. (960w)   Expandable Battery Runtime Extended runtime supported via optional external battery packs   Expandable Runtime Yes   Expandable Runtime Description Maximum output capacity is 1600 watts when used with external battery packs   External Battery Pack Compatibility Shtsp:-ac class="productLink" href="//www.tripplite.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DeC-Cabling-select-UPS-Systems-BP48V24-2U-Xa-Rack-Tower-Battery-Pack-Enclosure-DeC-Cabling-select-UPS-Systems-BP48V24-2U-Ka-Rack-Tower-Battery-Pack-Compatible; href="//www.tripplite.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DeC-Cabling-select-UPS-Systems-BP48V24-2U-Ka-Rack-Tower-Battery-Pack-Compatible; https://ac.abasb.pr.outil.th" href="//www.tripplite.com/External-48V-2U-Rack-Tower-Battery-Pack-Compatible; https://ac.abasb.pr.outil.th" href="//www.tripplite.com/External-48V-2U-Rack-Tower-Battery-Pack-Compatible; https://ac.abasb.pr.outil.th" href="//www.tripplite.com/External-48V-2U-Rack-Tower-Battery-Pack-Compatible; https://ac.abasb.pr.outil.th" href="//www.tripplite.com/External-48V-2U-Rack-Tower-Battery-Pack-Compatible; https://ac.abasb.pr.outil.th" href="//www.tripplite.com/External-48V-2U-Rack-Tower-Battery-Pack-Compatible; https://ac.abasb.pr.outil.th" href="//www.tripplite.com/2U-UPS-Replacement-48VDC-Battery-Cartridge-1-seccartery-Racked-Tripp-Line-SmartPro-UP		Pure Sine wave
Individually Controllable Load Banks   Yes     BATTERY     Battery Type   Valve Regulated Lead Acid (VRLA)     Full Load Runtime (min.)   4.5 min. (1920w)     Half Load Runtime (min.)   12 min. (960w)     Expandable Battery Runtime   Extended runtime supported via optional external battery packs     Expandable Runtime   Yes     Expandable Runtime   Yes     Expandable Runtime Description   Maximum output capacity is 1600 watts when used with external battery packs     External Battery Pack Compatibility   Rohsp:-ca class="productLink" href="//www.tripplite.com/External-48V/-2U-Rack-Tower-Battery-Pack-Enclosur-UPS-Systems-BP44V642U-2V-3eAbnsp; (mill-pack compatible); hrsps:-grave-alsass-productLink href="//www.tripplite.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems-BP44V642U-2V-3eAbnsp; (mill-pack compatible); hrsps:-grave-alsass-productLink href="//www.tripplite.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems-BP44V642U-2V-3eAbnsp; (mill-pack compatible); hrsps:-grave-alsass-productLink href="//www.tripplite.com/External-48V-2U-Rack-Tower-Battery-Pack-for-UPS-Systems-BP48V27-2US'>BP48V		110V; 115V; 120V
BATTERY       Battery Type     Valve Regulated Lead Acid (VRLA)       Full Load Runtime (min.)     4.5 min. (1920w)       Half Load Runtime (min.)     12 min. (960w)       Expandable Battery Runtime     Extended runtime supported via optional external battery packs       Expandable Runtime     Yes       Expandable Runtime Description     Maximum output capacity is 1600 watts when used with external battery packs       External Battery Pack Compatibility     & https://aca.tapse.groduct.ink". href="//www.tripplite.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-Dattery-Pack-Enclosure-Dattery-Pack-Enclosure-Dattery-Pack-Enclosure-Dattery-Pack-Enclosure-Dattery-Pack-Enclosure-Dattery-Pack-Enclosure-Dattery-Pack-Enclosure-Dattery-Pack-Enclosure-Dattery-Pack-Enclosure-DC-Cabling-select-UPS-Systems-BP48V027-2U/sBP48V02RT-3U's-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems-BP48V27-2U's-BP48V02RT-3U's-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems-BP48V27-2U's-BP48V02RT-3U's-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems-BP48V27-2US's-BP42US-/as-Rhspc; (multi-pack compatible)       DC System Voltage (VDC)     48       Battery Recharge Rate (Included Less than 4.5 hours from 10% to 90% (typical, full load discharge)       Battery Access     Front panel battery access door       Internal UPS Replacement Battery     & https://acalsis_='productLink'' href=''/www.tripplite.com/2U-UPS-Replacement-48VDC-Battery-Cartridge-11-se Select-Tinpy-Lite-SmartPro-UPS-REC94-2U's-RBC94-2U'a>Antbsp;       Battery	Output Receptacles	(4) 5-15R; (4) 5-15/20R
Battery Type   Valve Regulated Lead Acid (VRLA)     Full Load Runtime (min.)   4.5 min. (1920w)     Half Load Runtime (min.)   12 min. (960w)     Expandable Battery Runtime   Extended runtime supported via optional external battery packs     Expandable Runtime   Yes     Expandable Runtime Description   Maximum output capacity is 1600 watts when used with external battery packs     External Battery Pack Compatibility    :-a class="product.ink" href="//www.tripplite.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosur Cabling-select-UPS-Systems-BP48V/24-2U-SP48V/24U-ZP48V/24D-SP48V/24U-ZP48V/240-ZP48V/24U-ZP48V/24D-Z48ANP48V/24U-Z	Individually Controllable Load Banks	Yes
Full Load Runtime (min.) 4.5 min. (1920w)   Half Load Runtime (min.) 12 min. (960w)   Expandable Battery Runtime Extended runtime supported via optional external battery packs   Expandable Runtime Yes   Expandable Runtime Description Maximum output capacity is 1600 watts when used with external battery packs   External Battery Pack Compatibility & mbsp; <a class="productLink" href="//www.tripplite.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosur-&lt;br&gt;Cabling-select-UPS-Systems-BP48V24-2U" productlink"="">BP48V24-2U"&gt;BP48V24-2U       External Battery Pack Compatibility      <a class="productLink" href="//www.tripplite.com/2U-UPS-Replacement-48VDC-Battery-Cartridge-1-se&lt;br&gt;select-Tripp-Lite-SmartPro-UPS-RBC94-2U" productlink"="">RBC94-2U       Battery Replacement Description     Hot-swappable, user replaceable batteries</a></a>	Half Load Runtime (min.)	12 min. (960w)
Expandable Runtime Description   Maximum output capacity is 1600 watts when used with external battery packs     External Battery Pack Compatibility <a class="productLink" href="//www.tripplite.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosur&lt;br&gt;Cabling-select-UPS-Systems-BP48V24-2U">BP48V24-2U"&gt;BP48V24-2U    DC System Voltage (VDC) 48   Battery Recharge Rate (Included Batteries) Less than 4.5 hours from 10% to 90% (typical, full load discharge)   Battery Access Front panel battery access door Internal UPS Replacement Battery Select-Tripp-Lite-SmartPro-UPS-RBC94-2U'&gt;RBC94-2U'/&gt;RBC94-2U'/&gt;RBC94-2U'/&gt;Select-Tripp-Lite-SmartPro-UPS-RBC94-2U'/&gt;Select-Tripp-Lite-SmartPro-UPS-RBC94-2U'/&gt;Select-2U'/&gt;Select-Tripp-Lite-SmartPro-UPS-RBC94-2U'/&gt;Select-2U'/&gt;Select-Dripp-Lite-</a>	Expandable Battery Runtime	Extended runtime supported via optional external battery packs
External Battery Pack Compatibility <a class="productLink" href="//www.tripplite.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure Cabling-select-UPS-Systems-BP48V24-2U">BP48V24-2U"&gt;BP48V24-2U_/as_nbsp; (limit 1);  <a class="productLink href=" external-48v-3u-rack-tower-battery-pack-enclosure-dc-cabling-select-ups-systems-bp48v60rt-3u"="" www.tripplite.com="">BP48V24-2U"&gt;BP48V24-2U     DC System Voltage (VDC)   48     Battery Recharge Rate (Included Battery)   Less than 4.5 hours from 10% to 90% (typical, full load discharge)     Enternal UPS Replacement Battery    <a <="" class="productLink" href="//www.tripplite.com/2U-UPS-Replacement-48VDC-Battery-Cartridge-1-sectrified" td="">     Battery Replacement Description   Hot-swappable, user replaceable batteries     VOLTAGE REGULATION   Hot-swappable, user replaceable batteries</a></a></a>	Expandable Runtime	Yes
href="//www.tripplite.com/External-48V-3U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems-BP48V60RT-3U">BP48V60RT-3U">BP48V60RT-3U     Systems-BP48V60RT-3U">BP48V60RT-3U     by Systems-BP48V60RT-3U     Systems-BP48V60RT-3U     DC System Voltage (VDC)     48     Battery Recharge Rate (Included Batteries)     Less than 4.5 hours from 10% to 90% (typical, full load discharge)     Battery Access     Front panel battery access door     Internal UPS Replacement Battery Cartridge     Battery Replacement Description     Hot-swappable, user replaceable batteries     VOLTAGE REGULATION	Expandable Runtime Description	Maximum output capacity is 1600 watts when used with external battery packs
Battery Recharge Rate (Included Batteries)   Less than 4.5 hours from 10% to 90% (typical, full load discharge)     Battery Access   Front panel battery access door     Internal UPS Replacement Battery Cartridge <a class="productLink" href="//www.tripplite.com/2U-UPS-Replacement-48VDC-Battery-Cartridge-1-se select-Tripp-Lite-SmartPro-UPS-RBC94-2U">RBC94-2U"&gt;RBC94-2U-/a&gt;      Battery Replacement Description   Hot-swappable, user replaceable batteries     VOLTAGE REGULATION   Image: Content of the second second</a>	External Battery Pack Compatibility	Systems~BP48V60RT-3U">BP48V60RT-3U  (multi-pack compatible); <a class="productLink" href="//www.tripplite.com/External-48V-2U-Rack-Tower-Battery-Pack-for-UPS-Systems~BP48V27-2US">BP48V27-</a>
Batteries)   Cess than 4.5 hours from 10% to 90% (typical, full load discharge)     Battery Access   Front panel battery access door     Internal UPS Replacement Battery Cartridge <a class="productLink" href="//www.tripplite.com/2U-UPS-Replacement-48VDC-Battery-Cartridge-1-se select-Tripp-Lite-SmartPro-UPS~RBC94-2U">RBC94-2U"&gt;RBC94-2U-VPS-Replacement-48VDC-Battery-Cartridge-1-se select-Tripp-Lite-SmartPro-UPS~RBC94-2U"&gt;RBC94-2U     Battery Replacement Description   Hot-swappable, user replaceable batteries     VOLTAGE REGULATION   Image: Market Structure S</a>	DC System Voltage (VDC)	48
Internal UPS Replacement Battery Cartridge <a class="productLink" href="//www.tripplite.com/2U-UPS-Replacement-48VDC-Battery-Cartridge-1-se&lt;br&gt;select-Tripp-Lite-SmartPro-UPS-RBC94-2U">RBC94-2U"&gt;RBC94-2U-UPS-Replacement-48VDC-Battery-Cartridge-1-se     Battery Replacement Description   Hot-swappable, user replaceable batteries     VOLTAGE REGULATION   Image: Content of the select of</a>		Less than 4.5 hours from 10% to 90% (typical, full load discharge)
Battery Replacement Description Hot-swappable, user replaceable batteries   VOLTAGE REGULATION Image: Constraint of the second se	Battery Access	Front panel battery access door
VOLTAGE REGULATION		<a class="productLink" href="//www.tripplite.com/2U-UPS-Replacement-48VDC-Battery-Cartridge-1-set-4-select-Tripp-Lite-SmartPro-UPS~RBC94-2U">RBC94-2U</a>
	Battery Replacement Description	Hot-swappable, user replaceable batteries
Voltage Regulation Description Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 83 to 145	VOLTAGE REGULATION	
	Voltage Regulation Description	Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 83 to 145
Overvoltage Correction Voltage reduction of 12% applies when input is between 127 and 145	Overvoltage Correction	Voltage reduction of 12% applies when input is between 127 and 145
Undervoltage Correction Voltage boost of 12% applies when input voltage is between 96 and 108	Undervoltage Correction	Voltage boost of 12% applies when input voltage is between 96 and 108
Severe Undervoltage Correction Voltage boost of 24% applies when input voltage is between 83 and 95	Severe Undervoltage Correction	Voltage boost of 24% applies when input voltage is between 83 and 95



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USER INTERFACE, ALERTS & CON	TROLS
Front Panel LCD Display	Front panel LCD information and configuration screen offers detailed UPS and site power status and operating data, plus configuration of voltage, operating mode, alarm function and a variety of additional options (see manual for detailed LCD configuration and monitoring options)
Switches	3 pushbutton switches control OFF / ON power status, MODE selection and MUTE / ENTER control functions
Alarm Cancel Operation	Power-fail alarm can be temporarily silenced using alarm-cancel switch; silent mode alarm configuration option available
Audible Alarm	Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions
SURGE / NOISE SUPPRESSION	
UPS AC Suppression Joule Rating	570
UPS AC Suppression Response Time	Instantaneous
EMI / RFI AC Noise Suppression	Yes
PHYSICAL	
Primary Form Factor	Rackmount
Cooling Method	Fan
Included Mounting Accessory Description	Included 4POSTRAILKIT mounting bracket enables installation in 4 post racks from 20.5 to 36 inches (521 to 914mm)
Installation Form Factors Supported with Included Accessories	4 post 19 inch rackmount
Installation Form Factors Supported with Optional Accessories	2 post rackmount ( <a class="productLink" href="//www.tripplite.com/2-Post-Rack-Mount-Wall-Mount-Adapter-&lt;br&gt;Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM">2POSTRMKITWM</a> ); 2-4 post front rail rackmount ( <a class="productLink" href="//www.tripplite.com/Heavy-Duty-2-post-Front-Mounting-Ear-&lt;br&gt;Kit~UPSHDEARKIT">UPSHDEARKIT</a> ); 4 post rackmount short-depth ( <a <br="" class="productLink">href="//www.tripplite.com/4-Post-1U-Universal-Adjustable-Rack-Mount-Shelf-Kit-for-Wall-Mount- Racks-4POSTRAILKITWM"&gt;4POSTRAILKITWM</a> ); Tower ( <a <br="" class="productLink">href="//www.tripplite.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems-2-9USTAND"&gt;2- 9USTAND</a> ); Wallmount ( <a class="productLink" href="//www.tripplite.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-&lt;br&gt;Systems~2-9USTAND" productlink"="">2-9USTAND</a> enables upright tower UPS placement; <a class="productLink" href="//www.tripplite.com/2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS- Systems~2POSTRMKITWM"&gt;2POSTRMKITWM  enables wall-mount and 2-post rackmount installation;  <a class="productLink" href="//www.tripplite.com/4-Post-1U-Universal-Adjustable-Rack-Mount-Shelf-Kit-for-&lt;br&gt;Wall-Mount-Racks~4POSTRAILKITWM">4POSTRAILKITWM</a>  enables installation in 4-post short-depth racks from 14.5 to 23.5 inches (368 to 597mm);  <a class="productLink" href="//www.tripplite.com/Heavy-&lt;br&gt;Duty-2-post-Front-Mounting-Ear-Kit~UPSHDEARKIT">UPSHDEARKIT"&gt;UPSHDEARKIT"&gt;UPSHDEARKIT"&gt;UPSHDEARKIT"</a></a 
Primary UPS Depth (mm)	490



Primary UPS Height (mm)	88
Primary UPS Width (mm)	440
Rack Height	2U
Shipping Dimensions (hwd / cm)	21.59 x 61.72 x 54.86
Shipping Dimensions (hwd / in.)	8.50 x 24.30 x 21.60
Shipping Weight (kg)	34.93
Shipping Weight (lbs.)	77.00
UPS Housing Material	Steel
UPS Power Module Dimensions (hwd, cm)	8.79 x 43.99 x 49.00
UPS Power Module Dimensions (hwd, in.)	3.46 x 17.32 x 19.29
UPS Power Module Weight (kg)	26.13
UPS Power Module Weight (lbs.)	57.6
ENVIRONMENTAL	
Operating Temperature Range	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
Storage Temperature Range	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius
Relative Humidity	0 to 95%, non-condensing
AC Mode BTU / Hr. (Full Load)	306
Battery Mode BTU / Hr. (Full Load)	1157
AC Mode Efficiency Rating (100% Load)	96%
Audible Noise	45 dBA maximum, front side 1m
COMMUNICATIONS	
Network Management Cards	SNMPWEBCARD; <a class="productLink" href="//www.tripplite.com/Web-Management-Accessory-Card-&lt;br&gt;SmartPro-SmartOnline-UPS-Systems~TLNETCARD">TLNETCARD</a> ; <a <br="" class="productLink">href="//www.tripplite.com/Web-Management-Accessory-Card~WEBCARDLX"&gt;WEBCARDLX</a>
Network Monitoring Port Description	Supports detailed monitoring of UPS and site power conditions
PowerAlert Software	For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at https://www.tripplite.com/poweralert
Communications Cable	USB and DB9 cabling included
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
Network UPS Tools Compatibility	NUT compatible. See the full list of Tripp Lite NUT compatible UPS systems at https://www.networkupstools.org/stable-hcl.html?manufacturer=Tripp Lite
	Network management card optional
Network Management Card Description	



Transfer Time	5 milliseconds (line to battery mode); 1 millisecond (battery to line mode)
Low Voltage Transfer to Battery Power (Setpoint)	83
High Voltage Transfer to Battery Power (Setpoint)	145
FEATURES & SPECIFICATIONS	
Grounding Lug	Back panel grounding lug
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Auto Probe Monitoring and Reboot (requires WEBCARDLX); Automatic Voltage Regulation (AVR); Expandable battery backup; Hot swappable batteries; Remote management; Sine wave output; Surge/noise protection
Green Energy-Saving Features	Greater than 95% efficiency - GREEN UPS; Individually controllable load banks
STANDARDS & COMPLIANCE	
Product Certifications	CSA (Canada); NOM (Mexico); UL 1778
Product Compliance	RoHS; FCC Part 15 Class A (USA)
WARRANTY	
Product Warranty Period (Worldwide)	2-year warranty, 3 year with registration. Note: <a <br="" class="insuranceLink">href="//www.tripplite.com/support/product-warranty-registration"&gt;Registration is required</a> for 3-year warranty.
Connected Equipment Insurance	\$250,000 <a class="insuranceLink" href="//www.tripplite.com/support/insurance-policy">Ultimate Lifetime Insurance</a>

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