



# SmartPro 120V 2.2kVA 1.9kW Line-Interactive Sine Wave UPS, 4U Short Depth, Extended Run, Network Card Options, USB, DB9

## MODEL NUMBER: SMART2200CRMXL









### **Description**

This SmartPro® compact rack-mount Uninterruptible Power Supply (UPS) offers line-interactive voltage regulation, network-grade surge suppression and long-lasting battery support for critical network hardware during blackouts and extended power failures. Special reduced-depth housing, larger internal batteries, higher rated wattage and included 2-post rack-mount installation hardware makes these systems ideal for network and telecom wiring closets and other limited-space installations. 97% line power mode efficiency saves operating costs over less efficient UPS types. Runtime is expandable with optional BP48V24-2U (limit 1), BP48V48RT4U (multi-pack compatible) and BP48V27-2US (multi-pack compatible) reduced-depth external battery packs.

SMART2200CRMXL 4U rack-mount 2200VA/1900W UPS offers battery-derived sine wave AC output during power failures and extreme voltage variations. Line-interactive Automatic Voltage Regulation (AVR) provides two levels of voltage boost during brownouts and one level of voltage cut during overvoltage conditions to maintain regulated 120V nominal output over an input range of 83-145V. Includes NEMA 5-20P input plug, NEMA 5-15R and 5-15/20R output receptacles. Network management interfaces support simultaneous communications via USB port, DB9 serial port and optional network management accessory card slot. HID-compliant USB interface enables full integration with built-in power management and auto shutdown features of Windows and macOS. Supports detailed monitoring of equipment load levels, self-test data and utility power conditions via all three network interfaces at once. PowerAlert® monitoring software is available via free download. Emergency Power Off (EPO) interface. Integrated three-bank programmable PDU switching supports load shedding and remote-reboot of up to three individual connected devices. Three-stage metered current monitoring and battery charge status LEDs. Utility power and voltage regulation LEDs. Audible alarm. Self-test. 2-post rack-mount accessories included; 2-9USTAND tower stands. Field-replaceable, hot-swappable internal batteries and external battery packs. Attractive all-black color scheme.

#### **Features**

- SmartPro Compact rack-mount Uninterruptible Power Supply (UPS) offers line interactive voltage regulation, network grade surge suppression and long lasting battery support for critical network hardware during blackouts and extended power failures
- Special reduced-depth housing, larger internal batteries, higher rated wattage and included 2-post rackmount installation hardware makes these systems ideal for network and telecom wiring closets and other limited-space installations
- Runtime is expandable with optional BP48V24-2U (limit 1), BP48V48RT4U (multi-pack compatible) and BP48V27-2US (multi-pack compatible) reduced-depth external battery packs
- Some external battery configurations require the use of External Battery Configuration Software (see manual)

### **Highlights**

- 2.2kVA / 2200VA / 1900W line interactive 4U reduced-depth rack/tower UPS, Sine Wave
- Reduced depth housing is ideal for 2 post rackmount installations
- 97% line-mode efficiency, 3 switched load banks, 2-post mounting kit
- USB, RS232 and EPO and slot for network management card options
- 120V NEMA 5-20P input, 4 NEMA 5-15R and 4 NEMA 5-15/20R outlets
- To use the Auto Probe feature, this product requires a WEBCARDLX network interface (sold separately) running LX firmware update 15.5.2 or later

## **Package Includes**

- SmartPro Compact 4U Rackmount UPS system
- 2 post rackmount installation brackets
- USB and Serial Cabling
- Owner's manual





- Intelligent battery management system extends battery life
- SMART2200CRMXL 4U rack-mount 2200VA/1900 watt UPS offers battery-derived sine wave AC output during power failures and extreme voltage variations
- Line interactive Automatic Voltage Regulation (AVR) provides two levels of voltage boost during brownouts and one level of voltage cut during overvoltage conditions to maintain regulated 120V nominal output over an input range of 83-145V
- Includes NEMA 5-20P input plug, NEMA 5-15R and 5-15/20R output receptacles
- Network management interfaces support simultaneous communications via USB port, DB9 serial port and optional network management accessory card slot
- · Compatible with UPS management card options WEBCARDLX, SNMPWEBCARD and RELAYIOCARD
- HID-compliant USB interface enables full integration with built-in power management and auto shutdown features of Windows and macOS
- 97% efficiency in line power mode offers substantially lower operating costs than lower efficiency UPS types
- Supports detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces at once
- USB & Serial ports enable data-saving unattended shutdown when used with PowerAlert software, available via FREE download from <u>tripplite.eaton.com/products/power-alert</u>
- Emergency Power Off (EPO) interface
- Integrated 3-bank programmable PDU switching supports load shedding and remote-reboot of up to 3
  individual connected devices
- 3-stage metered current monitoring and battery charge status LEDs; Utility power and voltage regulation LEDs; Audible alarm; Self-test
- 2-post rack-mount accessories included; 2-9USTAND tower stands available
- Field-replaceable, hot-swappable internal batteries and external battery packs
- · Attractive all-black color scheme

# **Specifications**

OVERVIEW		
-		
UPC Code	037332142368	
UPS Type	Line-Interactive	
INDUT		
INPUT		
Input Phase	Single-Phase	
Rated input current (Maximum Load)	16A	
Nominal Input Voltage(s) Supported	120V AC	
UPS Input Connection Type	5-20P	
Input Circuit Breakers	20A	
UPS Input Cord Length (ft.)	10	
UPS Input Cord Length (m)	3.1	
Recommended Electrical Service	20A 120V	
OUTPUT		
Output Capacity (VA)	2200	





Output Capacity (Watts)  1900  Output Capacity (kW)  1.9  Power Factor  0.86  Nominal Voltage Details  120v nominal output in battery mode  Frequency Compatibility  60 Hz  Output Voltage Regulation (Line Mode)  -18%, +8%  Output Voltage Regulation (Battery Mode)  Load Management Receptacles  Three switchable single-outlet 5-15R load banks  Output AC Waveform (AC Mode)  Sine wave  Output AC Waveform (Battery Mode)  Nominal Output Voltage(s)  110V; 115V; 120V  Output Receptacles  (4) 5-15R; (4) 5-15/20R  Individually Controllable Load Banks  Yes		
Output Capacity (NW) 1.9 Power Factor 0.86 Nominal Voltage Details 120v nominal output in battery mode Friequency Compatibility 60 Hz Output Voltage Regulation (Line holds) Friequency Compatibility 60 Hz Output Voltage Regulation (Battery holds) Mode)  Three switchable single-outlet 5-15R load banks Output AC Waveform (AC Mode) Sine wave Output AC Waveform (AC Mode) Sine wave  Pure Sine wave Output AC Waveform (Battery holds) Nominal Output Voltage(s) Supported AC Waveform (Battery holds) Ves  BATTERY  Battery Y Battery Y Runtime Full Load (min.) 11 min. (1900W) Runtime Full Load (min.) 22 min. (950W) Expandable Runtime Yes  External Battery Pack Compatibility Shapey-a class="productLink" helf-"//ripplitic-ation.com/External-48V-2U-Rack-Tower-Battery-Pack Enclosure-DC-clating, select-UPS-Systems-BP48V-2U-Rack-Rosp, (mint 1), 8 nitspy-a class= productLink" helf-"//ripplitic-ation.com/External-48V-2U-Rack-Tower-Battery-Pack Enclosure-DC-clating, select-UPS-Systems-BP48V-2U-Rack-Rosp, (mint 1), 8 nitspy-a class= productLink" helf-"//ripplitic-ation.com/External-48V-2U-Rack-Tower-Battery-Pack Enclosure-DC-clating, select-UPS-Systems-BP48V-2U-Rack-Rosp, (mint 1), 8 nitspy-ac class= productLink" helf-"//ripplitic-ation.com/External-48V-2U-Rack-Tower-Battery-Pack Enclosure-DC-clating, select-UPS-Systems-BP48V-2U-Rack-Rosp, (mint 1), 8 nitspy-ac class= productLink" helf-"//ripplitic-ation.com/External-48V-2U-Rack-Tower-Battery-Pack Enclosure-DC-clating, select-UPS-Systems-BP48V-2U-Rack-Rosp, (mint 1), 8 nitspy-ac class="productLink" helf-"//ripplitic-ation.com/External-48V-2U-Rack-Rosp, (mint 1), 8 nitspy-ac class="productLink" helf-"//ri	Output Capacity (kVA)	2.2
Power Factor 0.86 Nominal Voltage Details 120v nominal output in battery mode Frequency Compatibility 60 Hz Output Voltage Regulation (Line Mode) -18%, +8% Output Voltage Regulation (Battery Mode) -18%, +8% Output Voltage Regulation (Battery Mode) -18%, +8% Output Voltage Regulation (Battery Mode) -19%, +8% Output A Voltage Regulation (Battery Mode) -19%, +8% Output AC Waveform (AC Mode) -19% -19% -19% -19% -19% -19% -19% -19%	Output Capacity (Watts)	1900
Nominal Voltage Details 120v nominal output in battery mode Frequency Compatibility 60 Hz  Output Voltage Regulation (Line	Output Capacity (kW)	1.9
Frequency Compatibility  Output Voltage Regulation (Line Mode)	Power Factor	0.86
Output Voltage Regulation (Line Mode)  -18%, +8%  -18%  -18%, +8%	Nominal Voltage Details	120v nominal output in battery mode
Mode) "" '5% '5% '5% '5% '5% '5% '5% '5% '5% '5%	Frequency Compatibility	60 Hz
Load Management Receptacles Three switchable single-outlet 5-15R load banks Output AC Waveform (AC Mode) Sine wave Output AC Waveform (Battery Mode) Pure Sine wave  Nominal Output Voltage(s) Supported 110V; 115V; 120V  Output Receptacles (4) 5-15R; (4) 5-15/20R Individually Controllable Load Banks  Pattery  Battery Type Slattery Type Valve Regulated Lead Acid (VRLA) Runtime Full Load (min.) 11 min. (1900W) Runtime Half Load (min.) 28 min. (950W) Expandable Runtime Yes  External Battery Pack Compatibility Systems—By 480 y 24-2 U Spread y 2-2 U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabing-salear-UPS-Systems—By 480 y 2-4 U-Spread-Abbs; (mint 1), & Arbsp.: a class="productLink" href="//ripplite.eaton.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabing-salear-UPS-Systems—By 480 y 2-4 U-Spread-Abbs; (mint 1), & Arbsp.: a class="productLink" href="//ripplite.eaton.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabing-salear-UPS-Systems—By 480 y 2-4 U-Spread-Abbs; (mint 1), & Arbsp.: a class="productLink" href="//ripplite.eaton.com/External-48V-2U-Rack-Tower-Battery-Pack-In-UPS-Systems—BP48V27-2US'-SP-480 y 2-2 U-Rack-Tower-Battery-Pack-In-UPS-Systems—BP48V27-2US'-SP-480 y 2-2 U-Rack-Tower-Battery-Pack-In-UPS-Replacement Battery  Battery Access Front panel battery access door Internal UPS Replacement Battery  & hot-swappable, user replaceable batteries  Voltage Regulation Description Automatic voltage regul		-18%, +8%
Output AC Waveform (AC Mode)  Sine wave  Output AC Waveform (Battery Mode)  Pure Sine wave  110V: 115V: 120V  Output Receptacles  (4) 5-15R; (4) 5-15/20R  Individually Controllable Load Banks  Pes  BATTERY  Battery Type  Valve Regulated Lead Acid (VRLA)  Runtime Full Load (min.)  11 min. (1900W)  Runtime Full Load (min.)  Expandable Runtime  Yes  External Battery Pack Compatibility  Antipolitie acidno.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-Capting-select-UPS-Systems-BP48V/2A-2U-SP48V/2A-2U-SP48V/2A-2U-Sens-BP48V/2A-2U-SP48V/2A-2U-Sp4sms-Pack-ForductLink' herje-"//tripplite acidno.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-Capting-select-UPS-Systems-BP48V/2A-2U-Sp48V/2A-2U-Sp4sms-Pack-ForductLink' herje-"/tripplite acidno.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-Capting-select-UPS-Systems-BP48V/2A-2U-Sp48V/2A-2U	Output Voltage Regulation (Battery Mode)	+/- 5%
Output AC Waveform (Battery Mode)  Nominal Output Voltage(s) Supported  110V; 115V; 120V  Output Receptacles (4) 5-15R; (4) 5-15/20R  Individually Controllable Load Banks  Ves  BATTERY  Battery Type  Valve Regulated Lead Acid (VRLA)  11 min. (1900W)  Runtime Full Load (min.)  28 min. (950W)  Expandable Runtime  Yes  External Battery Pack Compatibility  Shipsy:-a class="productLink" herf="//mipplite eaton.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-cabling-select-UPS-Systems-BP48V24-2U-Sa-Rabsp; (multi-pack compatible); Rhipsy-ca class="productLink" herf="//mipplite-eaton.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-cabling-select-UPS-Systems-BP48V24-2U-Sa-Rabsp; (multi-pack compatible); Rhipsy-ca class="productLink" herf="//mipplite-eaton.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-cabling-select-UPS-Systems-BP48V24-2U-Sa-Rabsp; (multi-pack compatible); Rhipsy-ca class="productLink" herf="/mipplite-eaton.com/External-48V-2U-Rack-Tower-Battery-Pack-Inclosure-DC-cabling-select-UPS-Systems-BP48V24-2U-Sa-Rabsp; (multi-pack compatible); Rhipsy-ca class="productLink" herf="/mipplite-eaton.com/External-48V-2U-Rack-Tower-Battery-Pack-Inclosure-DC-cabling-select-UPS-Systems-BP48V24-2U-Sa-Rabsp; (multi-pack compatible); Rhipsy-ca class="productLink" herf="/mipplite-eaton.com/External-48V-DC-Battery-Pack-Inclosure-DC-cabling-select	Load Management Receptacles	Three switchable single-outlet 5-15R load banks
Nominal Output Voltage(s)  Nominal Output Voltage(s)  Univ: 115V; 120V  Uniput Receptacles  (4) 5-15R; (4) 5-15/20R  Individually Controllable Load Banks  Yes  BATTERY  Battery Type  Valve Regulated Lead Acid (VRLA)  11 min. (1900W)  Runtime Full Load (min.)  28 min. (950W)  Expandable Runtime  External Battery Pack Compatibility  Anbsp:-a class="productLink" href="//hripplite.eaton.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems-BP48V24-2U-Fack-For-elect-UPS-Systems-BP48V24-2U-Fack-For-elect-UPS-Systems-BP48V24-2U-Fack-For-elect-UPS-Systems-BP48V24-2U-Fack-For-elect-UPS-Systems-BP48V24-2U-Fack-For-elect-UPS-Systems-BP48V24-2U-Fack-For-elect-UPS-Systems-BP48V27-2US-Fack-For-elect-UPS-Systems-BP48V24-2U-Fack-For-elect-UPS-Systems-BP48V27-2US-Fack-For-elect-UPS-Systems-BP48V27-2US-Fack-For-elect-UPS-Systems-BP48V27-2US-Fack-For-elect-UPS-Systems-BP48V27-2US-Fack-For-elect-UPS-Systems-BP48V27-2US-Fack-For-elect-UPS-Systems-BP48V27-2US-Fack-For-elect-UPS-Systems-BP48V27-2US-Fack-For-elect-UPS-Systems-BP48V27-2US-Fack-For-elect-UPS-Systems-BP48V27-2US-Fack-For-elect-UPS-Systems-BP48V27-2US-Fack-For-elect-UPS-Systems-BP48V27-2US-Fack-For-elect-UPS-Systems-BP48V27-2US-Fack-For-elect-UPS-Systems-BP48V27-2US-Fack-For-elect-For-el	Output AC Waveform (AC Mode)	Sine wave
Output Receptacles (4) 5-15R; (4) 5-15/20R Individually Controllable Load Banks Yes  BATTERY  Battery Type Valve Regulated Lead Acid (VRLA) Runtime Full Load (min.) 11 min. (1900W) Runtime Half Load (min.) 28 min. (950W)  Expandable Runtime Yes  External Battery Pack Compatibility Press Cabings-EproductLink' href="//tripplite.eaton.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabing-setal-48V-42-12-Yas-Rabsp; (limit 1);  -ca class="productLink' href="//tripplite.eaton.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabing-setal-48V-42-43-8-Anbsp; (limit 1);  -ca class="productLink' href="//tripplite.eaton.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabing-setal-48V-42-43-8-Anbsp; (limit 1);  -ca class="productLink' href="//tripplite.eaton.com/External-48V-42-43-8-Anbsp; (mulli-pack-compatible)"  -ca class="productLink' href="//tripplite.eaton.com/External-48V-42-43-8-Anbsp; (mulli-pack-compatible)"  -ca class="productLink' href="//tripplite.eaton.com/External-48V-42-43-8-Anbsp; (mulli-pack-compatible)"  -ca class="productLink' href="//tripplite.eaton.com/External-48V-42-43-43-43-43-43-43-43-43-43-43-43-43-43-		Pure Sine wave
BATTERY		110V; 115V; 120V
Battery Type Valve Regulated Lead Acid (VRLA)  Runtime Full Load (min.) 11 min. (1900W)  Runtime Half Load (min.) 28 min. (950W)  Expandable Runtime Yes  External Battery Pack Compatibility & anbsp.; a class="productLink" href="//tripplite.eaton.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems-BP48V24-2U"-BP48V24-2U"-BP48V24-2U-Ja-&Rabsp (limit 1);  .ca class="productLink" href="//tripplite.eaton.com/External-48V-4U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems-BP48V24-2U"-BP48V24-2U"-BP48V24-2U-Ja-&Rabsp (limit 1);  .ca class="productLink" href="//tripplite.eaton.com/External-48V-4U-Rack-Tower-Battery-Pack-for-UPS-Systems-BP48V27-2US-/ab-  (multi-pack compatible)  DC System Voltage (VDC) 48  Battery Recharge Rate (Included Battery Pack-for-UPS-Rack-Tower-Battery-Pack-for-UPS-Systems-BP48V27-2US-/ab-  (multi-pack compatible)  Battery Recharge Rate (Included Battery Pack-for-UPS-Rack-Tower-Battery-Pack-for-UPS-Systems-BP48V27-2US-/ab-  (multi-pack compatible)  Battery Recharge Rate (Included Battery Pack-for-UPS-Rack-Tower-Battery-Pack-for-UPS-Systems-BP48V27-2US-/ab-  (multi-pack compatible)  Battery Recharge Rate (Included Battery Pack-for-UPS-Rack-Tower-Battery-Pack-for-UPS-Replacement-48VDC-Battery-Cartridge-1-set-4-select-Tripp-Lite-SmartPro-UPS-RBC94-2U"-RBC94-2U"-Ja-  (quantity 2)  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  Overvoltage Correction Input voltages between 127 and 145 are reduced by 12%  Undervoltage Correction Input voltages between 96 and 108 are boosted by 12%	Output Receptacles	(4) 5-15R; (4) 5-15/20R
Runtime Full Load (min.)  Runtime Full Load (min.)  Runtime Half Load (min.)  28 min. (950W)  Expandable Runtime  Yes  External Battery Pack Compatibility  Sensor Load (min.)  External Battery Pack Compatibility  An External Battery Pack Compatibility  Sensor Load (min.)  External Battery Pack Compatibility  An External Battery Pack Compatibility  Sensor Load (min.)  External Battery Pack Compatibility  An External Battery Pack Compatibility  External Battery Pack Compatibility  An External Battery Pack Compatibility  External Battery Pack Compatibility  An External Battery Pack Compatibility  External Battery Pack Compatibility  An External Battery Pack Compatibility  External Battery Pack Compatibility  An External Battery Pack Compatibility  External Battery Pack Compatibility  An External Battery Pack Compatibility  External Battery Pack Compatibility  An External Battery Pack For-UPS-Systems-BP48V27-2Us"s-BP48V247-2Us"a-Shosp; (mint 1);  -a class="productLink" href="/hripplite.eaton.com/external-48V-2U-Rack-for-UPS-Speck-for-UPS-Speck-for-UPS-Speck-for-UPS-Speck-for-UPS-Speck-for-UPS-Speck-for-UPS-Speck-for-UPS-Replacement-48VDC-Battery-Cartridge-11-set-4-select-Tripp-Lite-SmartPro-UPS-RBC94-2U's-RBC94-2U-y-Rack-for-UPS-Replacement-48VDC-Battery-Cartridge-11-set-4-select-Tripp-Lite-SmartPro-UPS-RBC94-2U's-RBC94-2U-y-Rack-Bosp; (quantity 2)  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  Overvoltage Correction  Input voltages between 127 and 145 are reduced by 12%  Undervoltage Correction  Input voltages between 96 and 108 are boosted by 12%	Individually Controllable Load Banks	Yes
Runtime Full Load (min.)  Runtime Half Load (min.)  28 min. (950W)  Expandable Runtime  Yes  External Battery Pack Compatibility  Cabling-select-UPS-Systems-BP48V24-2U-SBP48V24-2U-Sa-Sanbsp. (limit 1); Sanbsp: <a class="productLink" href="//tripplite.eaton.com/External-48V-2U-Battery-Pack-for-select-UPS-Systems-BP48V27-2US" productlink"="">Systems-BP48V27-2US"&gt;Sptems-BP48V27-2US"<sptems-bp48v27-2us"<sptems-bp48v27-2us"<sptems-bp48v27-2us"<sptems-bp48v27-2us"<sptems-bp48v27-2us"<sptems-bp48v< td=""><td>Battery Type</td><td>Valve Regulated Lead Acid (VRLA)</td></sptems-bp48v27-2us"<sptems-bp48v27-2us"<sptems-bp48v27-2us"<sptems-bp48v27-2us"<sptems-bp48v27-2us"<sptems-bp48v<></a>	Battery Type	Valve Regulated Lead Acid (VRLA)
Expandable Runtime  Yes  External Battery Pack Compatibility <a &nbsp;<a="" (limit="" (multi-pack="" -bb48v49rt4u-ja-sa-nbsp;="" -sbp48v24-2u"-sa-8nbsp;="" 1);="" class="productLink" compatible);="" href="//tripplite.eaton.com/External-48V-2U-Rack-Tower-Battery-Pack-for-select-UPS-Systems-BP48V27-2US" productlink"="">kars-BP48V48TAU-Ja-Va-Sa-Nbsp; (multi-pack compatible);  <a class="productLink" href="//tripplite.eaton.com/External-48V-2U-Rack-Tower-Battery-Pack-for-UPS-Systems-BP48V27-2US">kars-BP48V27-2US"&gt;kars-BP48V27-2US"&gt;kars-BP48V27-2US"&gt;kars-BP48V27-2US"&gt;kars-BP48V27-2US"&gt;kars-BP48V27-2US"<kars-bp48v27-2us">kars-BP48V27-2US"<kars-bp48v27-2us">kars-BP48V27-2US"<kars-bp48v27-2us">kars-BP48V27-2US"<kars-bp48v27-2us">kars-BP48V27-2US"&gt;kars-BP48V27-2US"<kars-bp48v27-2us">kars-BP48V27-2US"<kars-bp48v27-2us">kars-BP48V27-2US"<kars-bp48v27-2us">kars-BP48V27-2US"<kars-bp48v27-2us">kars-BP48V27-2US"<kars-bp48v27-2us">kars-BP48V27-2US"<kars-bp48v27-2us">kars-BP48V27-2US"<kars-bp48v27-2us">kars-BP48V27-2US"<kars-bp48v27-2us">kars-BP48V27-2US"<kars-bp48v27-2us"<kars-bp48v27-2us">kars-BP48V27-2US"<kars-bp48v27-2us"<kars-bp48v24-2us">kars-BP48V27-2US"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us">kars-BP48V24-2US"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24< td=""><td>Runtime Half Load (min.)</td><td>28 min. (950W)</td></kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24<></kars-bp48v24-2us"<kars-bp48v24-2us"<kars-bp48v24-2us"></kars-bp48v27-2us"<kars-bp48v24-2us"></kars-bp48v27-2us"<kars-bp48v27-2us"></kars-bp48v27-2us"></kars-bp48v27-2us"></kars-bp48v27-2us"></kars-bp48v27-2us"></kars-bp48v27-2us"></kars-bp48v27-2us"></kars-bp48v27-2us"></kars-bp48v27-2us"></kars-bp48v27-2us"></kars-bp48v27-2us"></kars-bp48v27-2us"></kars-bp48v27-2us"></a></a>	Runtime Half Load (min.)	28 min. (950W)
href="//tripplite.eaton.com/External-48V-4U-Battery-Pack-for-select-UPS-Systems-BP48V48RTAU".sP48RTAU".sP48RTAU".sP48RTAU".sP48V49RTAU".sp48RTAU".	Expandable Runtime	Yes
Battery Recharge Rate (Included Batteries)  Less than 3.6 hours from 10% to 90% (typical, full load discharge)  Battery Access  Front panel battery access door  Internal UPS Replacement Battery Cartridge  Shbsp; <a class="productLink" href="//tripplite.eaton.com/2U-UPS-Replacement-48VDC-Battery-Cartridge-1-set-4-select-Tripp-Lite-SmartPro-UPS~RBC94-2U">RBC94-2U"&gt;RBC94-2U"&gt;RBC94-2U</a> >  (quantity 2)  Battery Replacement Description  Hot-swappable, user replaceable batteries  VOLTAGE REGULATION  Voltage Regulation Description  Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 83 to 145  Overvoltage Correction  Input voltages between 127 and 145 are reduced by 12%  Undervoltage Correction  Input voltages between 96 and 108 are boosted by 12%	External Battery Pack Compatibility	href="//tripplite.eaton.com/External-48V-4U-Battery-Pack-for-select-UPS-Systems~BP48V48RT4U">BP48V48RT4U  (multi-pack compatible); <a class="productLink" href="//tripplite.eaton.com/External-48V-2U-Rack-Tower-Battery-Pack-for-UPS-Systems~BP48V27-2US">BP48V27-2US"&gt;BP48V27-2US"&gt;BP48V27-2US"&gt;BP48V27-2US"&gt;BP48V27-2US"&gt;BP48V27-2US"&gt;BP48V27-2US"&gt;BP48V27-2US"&gt;BP48V27-2US"&gt;BP48V27-2US"&gt;BP48V27-2US"&gt;BP48V27-2US"&gt;BP48V27-2US"&gt;BP48V27-2USS BP48V27-2USS BP48V27-2USS</a>
Battery Access  Front panel battery access door  Internal UPS Replacement Battery Cartridge <a class="productLink" href="//tripplite.eaton.com/2U-UPS-Replacement-48VDC-Battery-Cartridge-1-set-4-select-Tripp-Lite-SmartPro-UPS~RBC94-2U">RBC94-2U"&gt;RBC94-2U"RBC94-2U"RBC94-2U"RBC94-2U"RBC94-2U" Voltage Regulation Description  Voltage Regulation Description  Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 83 to 145  Overvoltage Correction  Input voltages between 127 and 145 are reduced by 12%  Undervoltage Correction  Input voltages between 96 and 108 are boosted by 12%</a>	DC System Voltage (VDC)	48
Internal UPS Replacement Battery Cartridge <a class="productLink" href="//tripplite.eaton.com/2U-UPS-Replacement-48VDC-Battery-Cartridge-1-set-4-select-Tripp-Lite-SmartPro-UPS-RBC94-2U">RBC94-2U"&gt;RBC94-2U"RBC94-2U"RBC94-2U"RBC94-2U"<td>Battery Recharge Rate (Included Batteries)</td><td>Less than 3.6 hours from 10% to 90% (typical, full load discharge)</td></a>	Battery Recharge Rate (Included Batteries)	Less than 3.6 hours from 10% to 90% (typical, full load discharge)
Cartridge select-Tripp-Lite-ŚmartPro-UPS~RBC94-2U">RBC94-2U  (quantity 2)  Battery Replacement Description Hot-swappable, user replaceable batteries  VOLTAGE REGULATION  Voltage Regulation Description Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 83 to 145  Overvoltage Correction Input voltages between 127 and 145 are reduced by 12%  Undervoltage Correction Input voltages between 96 and 108 are boosted by 12%	Battery Access	Front panel battery access door
VOLTAGE REGULATION  Voltage Regulation Description Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 83 to 145  Overvoltage Correction Input voltages between 127 and 145 are reduced by 12%  Undervoltage Correction Input voltages between 96 and 108 are boosted by 12%		<a class="productLink" href="//tripplite.eaton.com/2U-UPS-Replacement-48VDC-Battery-Cartridge-1-set-4-select-Tripp-Lite-SmartPro-UPS~RBC94-2U">RBC94-2U</a> (quantity 2)
Voltage Regulation Description  Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 83 to 145  Overvoltage Correction  Input voltages between 127 and 145 are reduced by 12%  Undervoltage Correction  Input voltages between 96 and 108 are boosted by 12%	Battery Replacement Description	Hot-swappable, user replaceable batteries
Overvoltage Correction Input voltages between 127 and 145 are reduced by 12%  Undervoltage Correction Input voltages between 96 and 108 are boosted by 12%	VOLTAGE REGULATION	
Undervoltage Correction Input voltages between 96 and 108 are boosted by 12%	Voltage Regulation Description	Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 83 to 145
	Overvoltage Correction	Input voltages between 127 and 145 are reduced by 12%
Severe Undervoltage Correction Input voltages between 83 and 95 are boosted by 24%	Undervoltage Correction	Input voltages between 96 and 108 are boosted by 12%
	Severe Undervoltage Correction	Input voltages between 83 and 95 are boosted by 24%





USER INTERFACE, ALERTS & CONTROLS		
Switches	2 Switches control off/on power status and alarm-cancel/self-test operation; rear panel protected switches support low/high charger settings	
Alarm Cancel Operation	Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-battery status	
Audible Alarm	Audible alarm indicates power-failure, overload and low-battery conditions	
LED Indicators	5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status	
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	
Rack Height	4U	
Cooling Method	Fan	
Included Mounting Accessory Description	Included 2POSTRMKITWM mounting accessory enables 2-post rackmount installation	
Installation Form Factors Supported with Included Accessories	2 post 19 inch rackmount	
Installation Form Factors Supported with Optional Accessories	4 post rackmount full-depth ( <a class="productLink" href="//tripplite.eaton.com/4-Post-Rack-Mount-Installation-Kit-select-Rack-Mount-UPS-Systems~4POSTRAILKIT">4POSTRAILKIT</a> ); 4 post rackmount short-depth ( <a class="productLink" href="//tripplite.eaton.com/4-Post-1U-Universal-Adjustable-Rack-Mount-Shelf-Kit-for-Wall-Mount-Racks~4POSTRAILKITWM">4POSTRAILKITWM</a> ); Tower ( <a class="productLink" href="//tripplite.eaton.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND">2-9USTAND</a> %nbsp;)	
Minimum Required Rack Depth (cm)	53.34	
Minimum Required Rack Depth (inches)	21	
Minimum Required Rack Depth with External Battery Pack (cm)	64	
Minimum Required Rack Depth with External Battery Pack (in.)	25	
Minimum Required Rack Depth without External Battery Pack (cm)	58	
Minimum Required Rack Depth without External Battery Pack (in.)	22.8	
Optional Mounting Accessory Notes	Optional <a class="productLink" href="//tripplite.eaton.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS Systems~2-9USTAND">2-9USTAND</a> >   enables upright tower UPS placement; <a class="productLink" href="//tripplite.eaton.com/4-Post-Rack-Mount-Installation-Kit-select-Rack-Mount-UPS-Systems~4POSTRAILKIT">4POSTRAILKIT</a> >   mounting bracket enables installation in 4 post racks from 20.5 to 36 inches; <a class="productLink" href="//tripplite.eaton.com/4-Post-1U-Universal-Adjustable-Rack-Mount-Shelf-Kit-for-Wall-Mount-Racks~4POSTRAILKITWM">4POSTRAILKITWM</a> enables installation ir 4-post short-depth racks from 14.5 to 23.5 inches (368 to 597mm)	
Primary UPS Depth (mm)	452	
Primary UPS Height (mm)	175	





Primary UPS Width (mm)	439	
Shipping Dimensions (hwd / in.)	14.00 x 23.00 x 23.50	
Shipping Dimensions (hwd / cm)	35.56 x 58.42 x 59.69	
Shipping Weight (lbs.)	124.00	
Shipping Weight (kg)	56.25	
UPS Housing Material	Steel	
UPS Power Module Dimensions (hwd, cm)	17.50 x 43.94 x 45.21	
UPS Power Module Dimensions (hwd, in.)	6.89 x 17.30 x 17.80	
UPS Power Module Weight (kg)	45.50	
UPS Power Module Weight (lbs.)	100.3	
Unit Weight (lbs.)	100.300	
Unit Weight (kg)	45.50	
ENVIRONMENTAL		
Operating Temperature Range	32° to 104°F (0° to 40°C)	
Storage Temperature Range	5° to 122°F (-15° to 50°C)	
Relative Humidity	0 to 95%, non-condensing	
AC Mode BTU / Hr. (Full Load)	242	
AC Mode Efficiency Rating (100% Load)	97%	
Battery Mode Heat Dissipation (BTU/Hr) @ Full Load	885	
Audible Noise	45 dBA maximum, front side 1m	
COMMUNICATIONS		
Network Management Cards	<a class="productLink" href="//tripplite.eaton.com/Network-Card-Eaton-Tripp-Lite-Series-UPS-Systems~WEBCARDLXE">WEBCARDLXE</a> ; RELAYIOCARD	
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 software at https://tripplite.eaton.com/products/power-alert	
Communications Cable	USB and DB9 cabling included	
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications	
Network Management Card Description	Network management card optional	
Communications Interface	DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled)	
LINE / BATTERY TRANSFER		
Transfer Time	5 milliseconds	





Low Voltage Transfer to Battery Power (Setpoint)	83
High Voltage Transfer to Battery Power (Setpoint)	145
FEATURES & SPECIFICATIONS	
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); Hot swappable batteries; Remote management; Surge/noise protection
APPLICATIONS	
UPS Applications	Large Network
STANDARDS & COMPLIANCE	
Product Certifications	CSA (Canada); UL 1778
Product Compliance	RoHS; FCC Part 15 Class A (USA)
WARRANTY & SUPPORT	
Product Warranty Period (U.S. & Canada)	2-year warranty, 3 year with registration. Note: <a class="insuranceLink" href="//tripplite.eaton.com/support/product-warranty-registration">Registration is required</a> for 3-year warranty.
Product Warranty Period (International)	2-year limited warranty
Product Warranty Period (Mexico)	2-year warranty, 3 year with registration. Note: <a class="insuranceLink" href="//tripplite.eaton.com/support/product-warranty-registration">Registration is required</a> for 3-year warranty.
Product Warranty Period (Puerto Rico)	2-year warranty, 3 year with registration. Note: <a class="insuranceLink" href="//tripplite.eaton.com/support/product-warranty-registration">Registration is required</a> for 3-year warranty.
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 <a class="insuranceLink" href="//tripplite.eaton.com/support/insurance-policy">Ultimate Lifetime Insurance</a>

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