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## Model #: SU2200RMNAFTA

### SmartOnline Expandable 2U Rack / Tower UPS System - NAFTA assembled version of SU2200RTXL2Ua

#### Highlights



2200VA / 2.2kVA on-line, double-conversion, extended-run 2U rack / tower UPS  
Maintains sine-wave 100/110/120V +/-2% output during overvoltages to 138V and brownouts as low as 65V (50/60Hz auto-sensing)  
Simultaneous communications via HID compliant USB port, serial port, SNMP/Web card slot and EPO interface  
Fault tolerant auto-bypass mode, current monitoring and switched PDU control via 2 switchable output load banks  
Input: NEMA 5-20P (120V) / Output: 6 NEMA 5-15/20R and 1 NEMA L5-20R (120V)  
2 year product warranty / \$250,000 [Ultimate Lifetime Insurance](#) (USA & Canada only)

#### Description

2200VA on-line, double-conversion UPS system for critical server, network and telecommunications equipment. 2U rackmount form factor with an installed depth of only 19 in. Expandable battery runtime with optional BP48V60-3UNAFTA external battery packs. Full-time sine wave 100, 110 or 120V +/-2% output. Online, double-conversion Uninterruptible Power Supply (UPS) actively converts raw incoming AC power to DC, then re-converts output back to completely regulated, filtered AC output. Operates continuously without using battery power during brownouts to 65V and overvoltages to 138V. NEMA 5-20P input plug; NEMA 5-15/20R and NEMA L5-20R output receptacles. Network-grade AC surge and noise suppression. Zero transfer time between AC and battery operation. Network management interfaces support simultaneous communications via USB port, DB9 serial port and SNMPWEBCARD slot. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Supports simultaneous detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces. Includes PowerAlert monitoring software and complete cabling. Emergency Power Off (EPO) interface. Integrated 2-bank PDU switching supports load shedding and remote-reboot of connected equipment. 3-stage metered current monitoring and battery charge status LEDs. LED display panel easily rotates for better viewing in rackmount or tower configurations. Dataline surge suppression for dialup, DSL or network Ethernet connection. Utility power and voltage regulation LEDs. Audible alarm. Self-test. Fault-tolerant auto-bypass mode. 4-post rackmount accessories included; 2-9USTAND tower kit and 2POSTRMKITWM two post rack & wallmount accessories available. Field-replaceable, hot-swappable internal batteries and external battery packs. Attractive all-black color scheme. 2-year warranty and \$250,000 [connected equipment insurance](#) extended warranty and service contracts available

#### Applications

Ideal for protection of critical 120V equipment in server rooms, internetworking closets and telecommunications systems in rackmount or tower applications. Common applications include corporate or departmental servers, workstations, hubs, routers, bridges, CAD/CAM workstations, concentrators, IP telephony and traditional PBX switching systems.

#### Package Includes

SU2200RMNAFTA On-line Double-Conversion UPS System  
PowerAlert Software and cabling  
Mounting hardware for 4 post rack enclosures  
Instruction manual with warranty information

## Features

SmartOnline high performance UPS system is ideal for critical voice, data, medical and industrial network applications

True on-line, double-conversion UPS provides perfectly regulated sine wave output within 2% of 100/110/120V (user selectable) under all usage conditions

Maintains continuous operation through blackouts, voltage fluctuations and surges with zero transfer time

Removes harmonic distortion, fast electrical impulses, frequency variations and other hard to solve power problems not addressed by other UPS types

Corrects line voltage conditions as low as 65V and as high as 138V back to selectable 100/110/120V (+/-2%) values

Standard internal battery set offers 18 minutes runtime at half load (800W) and 6 minutes at full load (1600W)

Optional BP48V60-3UNAFTA external battery pack increases runtime to 132 minutes at half load (800W) and 61 minutes at full load (1600W/multi-pack compatible)

Compact rackmount form factor installs using only 2 rack spaces (2U) with a maximum installed depth of only 19 inches

Ships with all mounting accessories for 4 post rackmount installation

Optional 2POSTRMKITWM enables 2 post rackmount or wallmount installation

Optional 2-9USTAND accessory enables small-footprint upright tower placement

Fault tolerant auto-bypass maintains continuous utility output to connected equipment, even in cases where the UPS suffers internal failure and requires maintenance

Network interfaces support simultaneous communications via built-in USB, DB9 serial and SNMPWEBCARD slot

HID compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X

Included PowerAlert UPS monitoring software supports safe unattended shutdown, monitoring and control via local connected servers, plus any number of additional servers over IP

UPS interface supports on-battery, low-battery, power-restored, AC-voltage, DC-voltage, output current monitoring, battery charge current, battery capacity, AC line frequency, timed inverter sutoff, activate self-test, load bank output power control and remote reboot, UPS nominal voltage adjustment and UPS line to battery power voltage setpoints

Built-in Emergency Power Off (EPO) interface with cable

NEMA 5-20P input plug (user-installable NEMA 5-15P replacement plug included)/NEMA 5-15/20R & NEMA L5-20R output receptacles

Integrated 2 bank switched PDU enables remote outlet management for load shedding or remote reboot of individual load banks (bank 1 has two outlets/bank two has four outlets)

Front panel LEDs offer current monitoring and battery charge level information

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

Single line TEL/DSL or network ethernet line surge suppression

2 year manufacturer's product warranty, \$250,000 [Ultimate Lifetime Insurance](#)

## Specifications

SYSTEM OVERVIEW	
<b>Voltage compatibility</b>	120V AC (100/110/120V)
<b>Frequency compatibility</b>	50/60 Hz compatible (auto-sensing)
OUTPUT	
<b>Output VA</b>	2200
<b>Output watts</b>	1600
<b>Output nominal voltage</b>	120V AC (100/110/120V)
<b>Output voltage regulation</b>	Maintains full-time sine wave output within 2% of selected nominal, less than 3% total harmonic distortion (linear load) / 5% total harmonic distortion (computer load) (Less than 5% THD on-line and on-battery)
<b>Output frequency regulation</b>	Regulates line frequency to 50/60Hz +/- 0.05Hz
<b>Outlet quantity / type</b>	6 NEMA 5-15/20R, 1 NEMA L5-20R
<b>Customized load management receptacles</b>	2 controllable load banks support load shedding and remote reboot on demand of locked network devices (bank 1 has 2 outlets / bank 2 has 4 outlets)

<b>Overload protection</b>	Via 30A input breaker
<b>INPUT</b>	
<b>Maximum input amps</b>	16A
<b>Input connection type</b>	NEMA 5-20P (NEMA 5-15P also included)
<b>Input cord length</b>	10ft / 3m
<b>Recommended electrical service</b>	120V 20A dedicated circuit
<b>BATTERY</b>	
<b>Full load runtime</b>	6 minutes with internal batteries (1600w)
<b>Half load runtime</b>	18 minutes with internal batteries (800w)
<b>Expandable battery runtime</b>	Supports extended runtime with optional external battery pack BP48V60-3UNAFTA (multi-pack compatible)
<b>DC system voltage</b>	48VDC
<b>Typical battery lifespan</b>	3-6 years, depending on usage
<b>Battery recharge rate</b>	Less than 5 hours to 90%
<b>Replacement Battery Cartridge</b>	RBC94-2U
<b>VOLTAGE REGULATION</b>	
<b>Voltage regulation description</b>	On-line, double-conversion power conditioning maintains output within 2% of 100/110/120 volts at all times
<b>Overvoltage correction</b>	Maintains output of selected nominal +/-2% during overvoltages to 138V AC
<b>Brownout correction</b>	Maintains output of selected nominal +/-2% during undervoltages to 65V AC (at loads greater than 70% undervoltage correction extends to 80V)
<b>LEDS ALARMS &amp; SWITCHES</b>	
<b>Front panel LEDs</b>	LED STATUS DISPLAY: line power (green), online (green), bypass (yellow), on battery (green), overload (red), battery low (yellow) - 4 LED LOAD / BATTERY LEVEL DISPLAY (100%, 75%, 50%, 25%). LED display panel easily rotates for better viewing in rackmount or tower configurations.
<b>Alarms</b>	Multi-function audible alarm with distinctive ring patterns offer notification of backup operation (2 seconds on / 0.5 seconds off), low battery warning (1.25 seconds on / 0.5 seconds off), overload (sounds continuously), UPS fault (4.2 seconds on / 1 second off), input voltage out of frequency (2.1 seconds on / 0.14 seconds off) and high input voltage (2.1 seconds on / 0.07 seconds off)
<b>Switches</b>	Includes power off/on switch to enable system turn on (press ON switch), UPS battery test (press ON switch during normal AC operation), buzzer silence (press ON switch during battery operation) and OFF (press OFF switch) - all switch functions require that the switch be pressed and held for longer than 2 seconds, but less than 4 seconds
<b>SURGE / NOISE SUPPRESSION</b>	
<b>AC surge suppression</b>	1320 joules
<b>AC suppression response time</b>	Instantaneous
<b>Dataline suppression</b>	Set of 8 wire RJ style interface jacks offer surge suppression for network ethernet or TEL/DSL connection. Pins 1,2,3 and 6 offer ethernet protection starting at 7.5V and the center two wires, pins 4 & 5, offer TEL/DSL line suppression starting at 260V
<b>EMI / RFI AC noise suppression</b>	Yes
<b>PHYSICAL</b>	
<b>Shipping weight (lbs)</b>	57.3

<b>Shipping weight (kg)</b>	26
<b>Shipping Dimensions (HWD/in)</b>	9.75 x 20.25 x 24
<b>Shipping Dimensions (HWD/cm)</b>	24.8 x 51.4 x 61
<b>Unit weight (lbs)</b>	47.4
<b>Unit weight (kg)</b>	21.5
<b>Unit Dimensions (HWD/in)</b>	3.5 x 17.5 x 19
<b>Unit Dimensions (HWD/cm)</b>	8.9 x 44.4 x 48.3
<b>Material of construction</b>	Steel
<b>Form factors supported</b>	Rack/Tower (2U)
<b>Cooling method</b>	Built-in cooling fan
<b>Battery Access</b>	User replaceable, hot swap battery replacement supported via front access panel
<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>COMMUNICATIONS</b>	
<b>Network monitoring port</b>	Includes USB and DB9 serial ports. Built-in DB9 port offers both enhanced RS-232 enabled monitoring data, plus contact closure monitoring ability. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X.
<b>Software and cabling included</b>	Yes, includes PowerAlert software CD-ROM and complete cabling
<b>SNMP compatibility</b>	Yes, includes slot for optional SNMPWEBCARD accessory (#SNMPWEBCARD)
<b>WatchDog compatibility</b>	Yes, compatible with Tripp Lite's Watchdog system service 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
<b>LINE / BATTERY TRANSFER</b>	
<b>Transfer time from line power to battery mode</b>	Zero, online UPS continuously converts incoming AC to DC, then back to AC. When commercial power is interrupted, UPS maintains continuous output from battery reserves with absolutely no disruption in output AC power.
<b>Low voltage transfer to battery power</b>	Maintains continuous operation during undervoltages as low as 65V (80V at load levels over 70%). Below this switchover point, output is supported from battery derived AC power.
<b>High voltage transfer to battery power</b>	Maintains continuous operation without using battery power during overvoltages to 138V. Above this point, output is supported from battery derived AC power.
<b>CERTIFICATIONS</b>	
<b>Certifications</b>	Tested to UL1778 (USA), CSA C22.2 No. 107.3 (Canada), NOM (Mexico), Class A (emissions), FCC Part 68 / Industry Canada (Communications), RoHS compliant
<b>WARRANTY</b>	
<b>Product warranty</b>	2 year product warranty
<b>Connected equipment insurance (USA and Canada Only)</b>	\$250,000 connected equipment insurance (USA and Canada only)

<b>Optional coverage</b>	3-5 year warranties, plus next day and on-site warranty coverage available for select opportunities. Contact Tripp Lite for additional information.
<b>SPECIAL FEATURES</b>	
<b>EPO port</b>	Supports "Emergency Power Off" via set of dedicated built-in EPO jacks
<b>Cold Start</b>	Yes, inverter can be "cold started" to enable temporary AC output during a power failure
<b>Appearance</b>	Attractive black steel rackmount housing
<b>BATTERY PACK ACCESSORY (optional)</b>	
<b>Battery Pack Accessory (optional)</b>	BP48V60-3UNAFTA (optional)

More information, including related products, owner's manuals, and additional technical specifications, can be found online at [www.tripplite.com/products/model.cfm?txtModelID=3546](http://www.tripplite.com/products/model.cfm?txtModelID=3546).