



# SmartOnline 208/240V 20kVA On-Line UPS – Double Conversion, 18kW, N+1, 12U, Network Card Option, TAA Compliant

### MODEL NUMBER: SU20KRTAA











N+1 20kVA UPS protects connected equipment against damage due to blackouts, brownouts, surges and line noise.

#### **Features**

Protects Mission-Critical Rack-Mounted Equipment against Damage, Downtime and Data LossThis N+1 UPS system protects connected equipment against damage, downtime and data loss due to power outages, voltage fluctuations and transient surges. Featuring an 18,000W capacity, high 0.9 power factor, true on-line operation with pure sine wave output and zero transfer time to battery, the SmartOnline® SU20KRTAA provides the highest level of battery backup and AC power protection for critical server, network and telecom equipment. It offers automatic N+1 redundancy at load levels up to 10kVA and non-redundant operation from 10kVA all the way up to 20kVA.

Reliable, Expandable Battery BackupUPS battery backup keeps connected equipment operational through short power failures, and provides time to save data and perform an orderly system shutdown in case of a prolonged blackout. The external battery provides 12.5 minutes of support at half load and 4.3 minutes at full load. During normal operation, incoming utility power keeps the battery fully charged so backup power will be available when needed. For mission-critical applications demanding continuous uptime, the 20kVA UPS can provide expandable runtime with optional external battery packs, such as Tripp Lite's field-replaceable, hot-swappable BP240V10RT3UTAA (sold separately). A battery-independent restart ensures automatic UPS power-up after lengthy power outages, even with expired batteries.

Easily Hot-Swappable with No Expensive Service Calls or Downtime NeededWith its parallel PDU, the SU20KRTAA with manual bypass switching enables hot-swappable replacement of all major UPS system components in both N+1 and combined operating modes. In bypass mode, the PDU passes power to equipment without the use of the power and battery modules, allowing them to be removed while keeping your application in operation. When making repairs or replacing a battery, no lengthy service calls or downtime are necessary.

Intuitive Front-Panel Interface for Convenient UPS Operation and MonitoringFront-panel LEDs indicate line power, online mode, bypass mode, on-battery, charger and AC output status at a glance. The LCD readout with scroll controls supports visual monitoring of a variety of control options to support advanced UPS settings and configurations. The panel rotates for comfortable viewing in rack-mount or tower configuration.

Optional WEBCARDLX Network Interface Offers 24/7 AccessAn accessory slot accommodates the

#### **Highlights**

- Zero transfer time between AC power and battery for uninterrupted operation
- PDU keeps essential equipment powered during hot-swap battery replacement or repair
- Delivers complete N+1 redundancy when used with loads up to 10kVA
- Optional external batteries provide additional runtime for essential applications
- Complies with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases

#### **Applications**

- Delivering perfectly regulated sine wave output to missioncritical equipment
- Protecting connected components from dangerous surges, spikes and line noise
- Keeping equipment operational through short power failures
- Allowing time to save data and safely shut down components in case of a prolonged blackout

#### **Package Includes**

- (2) SU10KRT3UPMTAA hotswappable UPS power modules
- SUPDMB20KTAA parallel PDU w/maintenance bypass switch
- (2) BP240V10RT3UTAA external battery packs
- USB cable
- DB9 cable
- EPO cable
- Rack-mounting hardware
- · Owner's manual





optional Java-free HTML5-based WEBCARDLX interface, which enables full remote access for site power and UPS status monitoring, configuration, control and email notifications via secure web browser, SNMP, telnet or SSH. It supports 10/100 Mbps auto-sensing for optimum communication with an Ethernet network. Automated alerts help prevent accidental overloads, power loss and downtime.

Advanced Communications PortsUSB and DB9 ports (cables are included) enable data-saving unattended shutdown of connected systems when used with Tripp Lite's free downloadable PowerAlert® software. Capabilities include detailed monitoring of load levels, self-test data and utility power conditions.

**Versatile Installation Options**Hardware is included for mounting the 20kVA UPS system in 12U of space in an EIA-standard 19-inch 4-post rack. Use four optional 2POSTRMKITHD kits for 2-post rack mounting or two optional 2-9USTAND kits for mounting in an upright tower position.

**TAA-Compliant UPS for GSA Schedule Purchases**The SU20KRTAA is compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases.

**2-Year Warranty, \$250K Ultimate Lifetime Insurance and Environmentally Responsible Design**The SU20KRTAA comes with a 2-year warranty and \$250,000 of Ultimate Lifetime Insurance for any connected components damaged by a power surge (U.S., Canada and Puerto Rico only). It's manufactured in compliance with strict RoHS specifications, reflecting Tripp Lite's commitment to environmental responsibility.

## **Specifications**

OVERVIEW		
UPC Code	037332223777	
UPS Type	On-Line	
INPUT		
Input Phase	Single-Phase	
Rated input current (Maximum Load)	112.2A (200V), 108A (208V), 102A (220V), 97.6A (230V), 93.6A (240V)	
Nominal Input Voltage(s) Supported	200V AC; 208V AC; 240V AC	
UPS Input Connection Type	Hardwire	
UPS Input Connection Description	3 wire single phase input (L1, L2, G)	
Recommended Electrical Service	125A @ 200V, 208V, or 240V (L1, L2, G)	
OUTPUT		
Output Capacity (VA)	20000	
Output Capacity (kVA)	20.00	
Output Capacity (Watts)	18000	
Output Capacity (kW)	18.00	
Output Capacity Details	Supports up to 105% load continuously in double conversion mode, 106 to 125% for 1 minute, 126% to 150% for 30 seconds; Loads over 150% trigger immediate bypass mode operation to support loads directly from mains power; Double conversion mode is automatically restored as load levels are reduced to 95% or less	
Power Factor	0.9	
Crest Factor	3:1	





Frequency Compatibility Details Output frequency matches 50Hz or 50Hz to 60Hz (node) Output Voltage Regulation (Line Mode)  Output Voltage Regulation (Battery Mode)  Output Circuit Breakers  Output AC Waveform (AC Mode) Output AC Waveform (Battery Mode)  Pure Sine wave  Output AC Waveform (Battery Mode)  Nominal Output Voltage(s) Supported  Output Receptacles  (2) L6-30R; (8) C19  Individually Controllable Load Banks  No  BATTERY  Battery Type Valve Regulated Lead Acted Regulation (IskW)  Runtime Half Load (min.)  Expandable Runtime Yes  Expandable Runtime Yes  External Battery Pack Compatibility DC System Voltage (VDC)  Battery Replacement Description  For best results, add extegual number and type of Battery Recharge Rate (Included Batteries)  Battery Replacement Description  Voltage Regulation Description  Voltage Regulation Description  Overvoltage Correction  Corrects overvoltages up Undervoltage Correction  Corrects undervoltages and USER INTERFACE, ALERTS & CONTROLS  Front Panel LCD Display  Selectable LCD display LED/LCD panel rotates for ITALIAN, SPANISH and Interpact of Italian and Interpact of Italian and Interpact of Italian and Interpact of Italian and Italian an	
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Battery Type Valve Regulated Lead Adrian Runtime Full Load (min.) 4.3 min. (18kW)  Runtime Half Load (min.) 12.5 min. (9000W)  Expandable Runtime Yes  Expandable Runtime Description For best results, add exterqual number and type of External Battery Pack Compatibility BP240V10RT3UTAA; BPDC System Voltage (VDC) 240  Battery Recharge Rate (Included Batteries) Less than 6 hours from 1  Battery Replacement Description Hot-swappable, user replacement Poscription 2% output voltage regulation Overvoltage Correction Corrects overvoltages up Undervoltage Correction Corrects undervoltages at USER INTERFACE, ALERTS & CONTROLS  Front Panel LCD Display Selectable LCD display work LED/LCD panel rotates for ITALIAN, SPANISH and Interpretation of the properties of the prope	
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Front Panel LCD Display  Selectable LCD display w LED/LCD panel rotates for ITALIAN, SPANISH and	s low as 100V
LED/LCD panel rotates for ITALIAN, SPANISH and	
Switches 2 Switches control off/on	with scroll and selection buttons enables UPS control and detailed monitoring options; or viewing in rack/tower formats; LCD Display supports ENGLISH, FRENCH, GERMAN, PORTUGUESE (see manual)
	power status and alarm-cancel/self-test operation; 2 additional switches support set and actions; bundled PDU includes bypass switch to enable hot-swap UPS power module
Alarm Cancel Operation Alarm cancel switch	





Audible Alarm	Unique audible alarms for all major UPS, environmental and power conditions (see manual)
LED Indicators	6 LEDs indicate line power, online mode, bypass mode, on-battery, charger and AC output status; LCD screen offers additional information and control options
SURGE / NOISE SUPPRESSION	
UPS AC Suppression Joule Rating	2565
UPS AC Suppression Response Time	Instantaneous
EMI / RFI AC Noise Suppression	Yes
PHYSICAL	
Primary Form Factor	Rackmount
Rack Height	12U
Cooling Method	Fans
Included Battery Pack Dimensions (hwd / in.)	5.25 x 17.50 x 25.00
Included Battery Pack Weight (lbs.)	159
Included Battery Pack Weight (kg)	72.12
Included Mounting Accessory Description	4 sets of adjustable 4 post rack rails included (one for each included 3U module)
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="//tripplite.eaton.com/2-Post-Rack-Mount-Installation-Kit-3U-Larger-UPS-Transformer-Battery-Pack-Components~2POSTRMKITHD">2POSTRMKITHD</a> ); Tower ( <a class="productLink" href="//tripplite.eaton.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND">2-9USTAND</a> )
Maximum Device Depth (cm)	83.82
Maximum Device Depth (in.)	33
Maximum Device Depth (mm)	838
Minimum Required Rack Depth (cm)	96.52
Minimum Required Rack Depth (inches)	38
Optional Mounting Accessory Notes	Qty 4 <a class="productLink" href="//tripplite.eaton.com/2-Post-Rack-Mount-Installation-Kit-3U-Larger-UPS-Transformer-Battery-Pack-Components-2POSTRMKITHD">2POSTRMKITHD</a> -  required; Qty 2 <a class="productLink" href="//tripplite.eaton.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND">2-9USTAND</a> -  required
Primary UPS Depth (mm)	656
Primary UPS Height (mm)	131
Primary UPS Width (mm)	445
Shipping Dimensions (hwd / in.)	36.00 x 40.25 x 51.00
Shipping Dimensions (hwd / cm)	91.44 x 102.24 x 129.54
Shipping Weight (lbs.)	601.00
Shipping Weight (kg)	272.61





Unit Dimension Details	Includes 2 SU10000RT3UPMTAA UPS/Power modules, 2 BP240V10RT3UTAA Battery packs and SUPDMB20KTAA parallel bypass PDU; Listed weights and dimensions for UPS/Power module and Included battery pack each refer to a single unit; MAXIMUM DEVICE DEPTH specification refers to the whole UPS installed depth with parallel bypass PDU installed	
UPS Housing Material	Steel	
UPS Power Module Dimensions (hwd, cm)	13.06 x 44.45 x 65.58	
UPS Power Module Dimensions (hwd, in.)	5.14 x 17.50 x 25.82	
UPS Power Module Weight (kg)	19.96	
UPS Power Module Weight (lbs.)	44	
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)	6830	
AC Mode Efficiency Rating (100% Load)	90%	
Battery Mode Heat Dissipation (BTU/Hr) @ Full Load	9185	
Operating Elevation	0-3000m (0 to 10,000 ft.)	
Audible Noise	60 dBA at front side 1 meter	
COMMUNICATIONS		
Network Management Cards	SNMPWEBCARD; <a class="productLink" href="//tripplite.eaton.com/Web-Management-Accessory-Card-SmartPro-SmartOnline-UPS-Systems~TLNETCARD">TLNETCARD</a> ; WEBCARDLX; <a class="productLink" href="//tripplite.eaton.com/MODBUS-Management-Accessory-Card-UPS-Remote-Monitoring-Control~MODBUSCARD">MODBUSCARD</a> ; <a class="productLink" href="//tripplite.eaton.com/Programmable-Relay-I-O-Card~RELAYIOCARD">RELAYIOCARD</a>	
Network Monitoring Port Description	Applications utilizing any supported network management card option, require the installation of two of the same model network card – install one card per included UPS power module; RELAYIOMINI installation requires removal of panel containing USB ports on each included UPS power module	
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, DB9 serial and EPO cables 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	No transfer time (0 ms.) in online, double-conversion mode	
Low Voltage Transfer to Battery Power (Setpoint)	100V	





High Voltage Transfer to Battery Power (Setpoint)	300V	
FEATURES & SPECIFICATIONS		
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported	
High Availability UPS Features	Auto Probe Monitoring (requires WEBCARDLX); Automatic inverter bypass; Expandable battery backup; Hot swappable UPS power module; Hot swappable batteries; Manual bypass switch; N+1 Redundant up to 50% capacity; On-Line/Double-Conversion; Remote management; Sine wave output; Surge/noise protection; Zero transfer time	
Green Energy-Saving Features	Support for daily startup and shutoff	
APPLICATIONS		
UPS Applications	Mission Critical Applications	
STANDARDS & COMPLIANCE		
Product Certifications	CSA (Canada); UL 1778	
Product Compliance	RoHS; FCC Part 15 Class A (USA)	
WARRANTY & SUPPORT		
Product Warranty Period (Worldwide)	2-year limited 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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