

Tripp Lite
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SmartOnline 20kVA On-Line Double-Conversion UPS, N+1, 12U Rack/Tower, 200-240V C19 outlets

MODEL NUMBER: SU20KRTG









Description

Tripp Lite SU20KRTG 20,000VA / 20kVA / 18,000 watt online, double-conversion UPS system offers complete power protection for critical server, network and telecommunications equipment in a 12U rack/tower configuration. This system delivers complete N+1 redundancy when used at loads up to 10kVA, and non-redundant operation at loads between 10 and 20kVA. Fault-tolerant auto-bypass prevents unexpected service interruptions during UPS overload or internal fault conditions. Included parallel PDU with manual bypass switching enables hot-swappable replacement of all major UPS system components in both N+1 and combined operating modes. Enhanced availability, fault tolerance and simple hot-swap replacement options make this UPS ideal for advanced networking applications in data centers, computer rooms, network closets and rugged industrial locations.

Highlights

- 20kVA / 20,000VA / 18,000W on-line double-conversion UPS;
 0.9 power factor
- 200/208/220/230/240V 50/60Hz output; Economy mode option
- Hot-swap power and battery modules, N+1 fault tolerance at loads up to 10kVA
- USB, RS232 & EPO ports; support for SNMP/WEB and contact-closure card options
- Front panel LEDs with detailed LCD monitoring and control screen
- Expandable runtime with optional external battery packs
- Hardwire input (3 wire); C19 outlets

Package Includes

- Two SU10000RT3UPM UPS power modules
- Two BP240V10RT3U battery packs
- SUPDMB20KIEC PDU with Bypass switch
- 4-post rackmount installation rails
- PowerAlert software and cabling

Features

- Tripp Lite SU20KRTG 20kVA, 20,000VA / 18,000 watt on-line, double-conversion UPS system in 12U total rack/tower configuration
- Unique configuration offers 20kVA non-redundant operation and automatic N+1 redundancy at load levels of 10kVA and under
- Included Parallel PDU with manual bypass switch enables hot-swap replacement power modules at any supported load level
- Hardwire input; 8 C19 outlets
- Maintains full-time sine wave output within 2% of selectable 200/208/220/230/240V nominal
- Supports 50/60Hz operation for worldwide frequency compatibility
- Expandable runtime with optional external battery packs
- Some external battery configurations require the use of Tripp Lite's External Battery Configuration Software (see manual)
- · Battery independent restart
- Highly efficient economy mode option
- Optional SNMPWEBCARD, RELAYIOCARD and RELAYIOMINI interface modules available (RELAYIOMINI requires removal of USB interface module)
- Applications utilizing the optional network communications card require two SNMPWEBCARD accessories (install one per included power module)
- HID-compliant USB interface
- Includes Free PowerAlert monitoring software; PowerAlert LOCAL, PowerAlert NSA and PowerAlert NMS for monitoring up to 250 SNMP-enabled UPS,



PDU and other networking devices

- Optional 2POSTRMKITHD supports installation in 2 post 19 inch racks (4 required)
- Optional 2-9USTAND supports upright tower placement (2 required)
- Supports Emergency Power Off (EPO) via built-in interface
- Front panel LEDs and LCD readout with scroll controls
- LED / LCD display panel rotates for viewing in rackmount or tower configurations
- External battery packs are field replaceable and hot swappable
- Frequency conversion mode enables conversion of 60Hz to 50Hz or 50Hz to 60Hz (no de-rating)

Specifications

General Info		
Product Group	UPS SYSTEMS	
ОИТРИТ		
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	
Output Volt Amp Capacity (VA)	20000	
Output kVA Capacity (kVA)	20	
Output Watt Capacity (Watts)	18000	
Output kW Capacity (kW)	18	
Power Factor	0.9	
Nominal Output Voltage(s) Supported	200V; 208V; 220V; 230V; 240V	
Nominal Voltage Details	Voltage selection via front panel LCD interface	
Frequency Compatibility	50 / 60 Hz; Supports 50 to 60 Hz and 60 to 50 Hz conversion	
Frequency Compatibility Details	Output frequency matches input nominal on startup; Frequency conversion mode enables conversion of 60Hz to 50Hz or 50Hz to 60Hz (no de-rating)	
Output Voltage Regulation (Line Mode)	+/- 2%	
Output Voltage Regulation (Economy Line Mode)	+/- 10%	
Output Voltage Regulation (Battery Mode)	+/- 2%	
UPS Output Receptacles	8 C19 outlet(s)	
Output Circuit Breakers	8 20A breakers protect one C19 outlet each	
Output AC Waveform (AC Mode)	Sine wave	
Output AC Waveform (Battery Mode)	Pure Sine wave	
INPUT		





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; 220V AC; 230V AC; 240V AC
UPS Input Connection Type	Hardwire
UPS Input Connection Description	3 wire single phase input (L1, L2, G)
Recommended Electrical Service	120A @ 200V-240V (L, N, PE), or 125A @ 200V, 208V, or 240V (L1, L2, G)
Input Phase	Single-Phase
BATTERY	
Full Load Runtime (min.)	4.3 minutes (18,000 watts)
Half Load Runtime (min.)	12.5 minutes (9000 watts)
Expandable Battery Runtime	Runtime is expandable with external battery packs
External Battery Pack Compatibility	BP240V10RT3U; BP240V557C-1PH; BP240V787C-1PH; BP240V1037C-1PH; BP240V1407C-1PH
Expandable Runtime Description	For best results, add external batteries in multiples of two so that both included 10kVA power modules have an equal number and type of connected battery packs
DC System Voltage (VDC)	240
Battery Recharge Rate (Included Batteries)	Less than 8 hours from 10% to 90% (typical, full load discharge)
Battery Replacement Description	Hot-swappable, user replaceable external battery packs
VOLTAGE REGULATION	
Voltage Regulation Description	2% output voltage regulation in standard online, double-conversion mode
Overvoltage Correction	Corrects overvoltages up to 300V
Undervoltage Correction	Corrects undervoltages as low as 100V
LEDS ALARMS & SWITCHES	
LED Indicators	6 LEDs indicate line power, online mode, economy/bypass mode, on-battery, charger and AC output status; LCD screen offers additional information and control options
Front Panel LCD Display	Selectable LCD display with scroll and selection buttons enables UPS control and detailed monitoring options; LED/LCD panel rotates for viewing in rack/tower formats; LCD Display supports ENGLISH, FRENCH, GERMAN, ITALIAN, SPANISH and PORTUGUESE (see manual)
Audible Alarm	Unique audible alarms for all major UPS, environmental and power conditions (see manual)
Alarm Cancel Operation	Alarm cancel switch
Switches	2 Switches control off/on power status and alarm-cancel/self-test operation; 2 additional switches support set and execute scrolling LCD functions; bundled PDU includes bypass switch to enable hot-swap UPS power module replacement
SURGE / NOISE SUPPRESSION	
SURGE / NOISE SUPPRESSION UPS AC Suppression Response Time	Instantaneous



PHYSICAL		
Included Mounting Accessory Description	4 sets of adjustable 4 post rack rails included (one for each included 3U module)	
Installation Form Factors Supported with Optional Accessories	2 post rackmount (2POSTRMKITHD); Tower (2-9USTAND)	
Optional Mounting Accessory Notes	Qty 4 2POSTRMKITHD required; Qty 2 2-9USTAND required	
Primary Form Factor	Rackmount	
UPS Power Module Dimensions (hwd, in.)	5.14 x 17.5 x 25.82	
UPS Power Module Dimensions (hwd, cm)	13.1 x 44.5 x 65.6	
Installed Whole System Maximum Rack Depth (in.)	32.5	
Installed Whole System Maximum Rack Depth (cm)	82.6	
Rack Height	12U	
Secondary Form Factor	Tower	
UPS Power Module Weight (lbs.)	44.1	
UPS Power Module Weight (kg)	20	
UPS Dimensions Details	Includes 2 SU10000RT3UPM UPS/Power modules and 2 BP240V10RT3U Battery packs; Listed weights and dimensions for UPS/Power module and Included battery pack each refer to a single unit	
Included Battery Pack Dimensions (hwd / in.)	5.25 x 17.5 x 25	
Included Battery Pack Dimensions (hwd / cm)	13.3 x 44.5 x 63.5	
Included Battery Pack Weight (lbs.)	158.7	
Included Battery Pack Weight (kg)	72	
UPS Shipping Dimensions (hwd / in.)	36 x 40.25 x 51	
UPS Shipping Dimensions (hwd / cm)	91.4 x 102.2 x 129.5	
Shipping Weight (lbs.)	600	
Shipping Weight (kg)	272.4	
Cooling Method	Fans	
UPS Housing Material	Steel	
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 Economy Mode BTU / Hr. (Full Load) AC Economy Mode BTU / Hr. (Full Load) AC Economy Mode BTU / Hr. (Full Load) AC Economy Mode Efficiency Rating (100% Load) AC Economy Mode Details at 100 Hr. (100% Load) AC Economy Mode Details (100% Load) AC		
Load) 87% AC Mode Efficiency Rating (100% Load) 87% AC Economy Mode Efficiency Rating (100% Load) 98% Operating Elevation (ft.) 0-3000m (0 to 10,000 ft.) Audible Noise 60 dBA at front side 1 meter Operating Elevation (m) 0-3000 m COMMUNICATIONS COMMUNICATIONS Communications Interface USB (HID enabled); DB9 Serial, EPO (emergency power off); Slot for SNMP/Web interface Applications utilizing the optional network communications card require two SNMP/WEBCARD accessories (install or experiments) and politoral network communications card require two SNMP/WEBCARD accessories (install or experiments) and politoral network communications card require two SNMP/WEBCARD accessories (install or experiments) and politoral network communications card require two SNMP/WEBCARD accessories (install or experiments) and politoral network communications card require two SNMP/WEBCARD accessories (install or experiments) and politoral network communications card require two SNMP/WEBCARD accessories (install or experiments) and politoral network communications card require two SNMP/WEBCARD accessories (install or experiments) and politoral network communications card require two SNMP/WEBCARD accessories (install or experiments) and politoral politoral or politoral of panel containing USB ports Power/Let Software Included USB, DB9 serial and EPO cables included Watch Dog Compatibility Supports Watchdog application, OS and hard-reboot restart options for remote applications **Included** Transfer Time (Economy Mode) 8 milliseconds typical power failure response in optional economy mode Low Voltage Transfer to Battery Power (Sciporit) 100V **SPECIAL FEATURES** **POWER (Sciporit) 100V **SPECIAL FEATURES** **Cold Start (Startup in Battery Mode) 100V **Communication in Battery Mode) 100V **C	AC Mode BTU / Hr. (Full Load)	6830
CECONOMY MODE Efficiency Ratins 96% AC Economy Mode Efficiency Ratins 96% Audible Noise		2550
Operating Elevation (ft.) Operating Elevatio		87%
Audible Noise 60 dBA at front side 1 meter Operating Elevation (m) 0-3000 m COMMUNICATIONS Communications Interface USB (HID enabled): DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface Applications utilizing the optional network communications card require two SNMP/WEBCARD accessories (install one per included power module); Additional contact closure support with optional RELAY/IOCARD and RE		96%
COMMUNICATIONS Communications Interface USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface Network Monitoring Port Description RELAYIOCMINI interface cards, RELAYIOMINI installation requires very SNMP/WEBCARD accessories (install one per included power module); Additional contact closure support with optional RELAYIOCARD and R	Operating Elevation (ft.)	0-3000m (0 to 10,000 ft.)
COMMUNICATIONS Communications Interface USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface Applications utilizing the optional network communications card require two SNMP/Web Interface Applications utilizing the optional network communications card require two SNMP/WebCARD accessories (install one per included power module); Additional contact closure support with optional RELAYIOCARD and RELAYIOMINI interface cards; RELAYIOMINI installation requires removal of panel containing USB ports Power Alert Software Included Communications Cable USB, DB9 serial and EPO cables included WatchDog Compatibility Supports Watchdog application, OS and hard-reboot restart options for remote applications LINE / BATTERY TRANSFER Transfer Time No transfer time (0 ms.) in online, double-conversion mode B milliseconds typical power failure response in optional economy mode Low Voltage Transfer to Battery Power (Setpoint) 100V Power (Setpoint) 300V SPECIAL FEATURES Cold Start (Startup in Battery Mode During a Power Failure) Cold-start operation supported Conomy Mode Operation Optional economy mode enables high efficiency bypass operation with a maximum output voltage variation of +1-10%, Double conversion mode is automatically restored as mains voltage varies beyond +1-10% with less than 1 millisecond transfer time between modes. High Availability UPS Features Automatic inverter bypass; Manual bypass switch; Detachable hot-swap PDU; Hot swappable UPS power module; Hot swappable batteries Green Energy-Saving Features Tested to UL 1778 (USA); Tested to CSA (Canada); CE; Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances)	Audible Noise	60 dBA at front side 1 meter
Network Monitoring Port Description Applications utilizing the optional network communications card require two SNMPWEBCARD accessories (install one per included power module): Additional contact closure support with optional RELAYIOCARD and RELAYIOMINI interface cards; RELAYIOMINI installation requires removal of panel containing USB ports PowerAlert Software Included Communications Cable USB, DB9 serial and EPO cables included WatchDog Compatibility Supports Watchdog application, OS and hard-reboot restart options for remote applications LINE / BATTERY TRANSFER Transfer Time No transfer time (0 ms.) in online, double-conversion mode B milliseconds typical power failure response in optional economy mode Low Voltage Transfer to Battery Power (Setpoint) 100V SPECIAL FEATURES Cold Start (Startup in Battery Mode During a Power Failure) Cold-start operation supported Conomy Mode Operation Optional economy mode is automatically restored as mains voltage varies beyond +/-10% with less than 1 millisecond transfer time between modes. High Availability UPS Features High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operations CERTIFICATIONS UPS Certifications Tested to UL1778 (USA); Tested to CSA (Canada); CE; Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances)	Operating Elevation (m)	0-3000 m
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Network Monitoring Port Description RELAYIOMINI interface cards; RELAYIOMINI installation requires removal of panel containing USB ports PowerAlert Software Included Communications Cable USB, DB9 serial and EPO cables included WatchDog Compatibility Supports Watchdog application, OS and hard-reboot restart options for remote applications LINE / BATTERY TRANSFER Transfer Time No transfer time (0 ms.) in online, double-conversion mode Transfer Time (Economy Mode) B milliseconds typical power failure response in optional economy mode Low Voltage Transfer to Battery Power (Setpoint) 100V High Voltage Transfer to Battery Power (Setpoint) SPECIAL FEATURES Cold Start (Startup in Battery Mode During a Power Failure) Coptional economy mode enables high efficiency bypass operation with a maximum output voltage varies beyond +/-10% with less than 1 millisecond transfer time between modes. High Availability UPS Features Creen Energy-Saving Features Tested to UL1778 (USA); Tested to CSA (Canada); CE; Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances)	Communications Interface	USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
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Transfer Time No transfer time (0 ms.) in online, double-conversion mode Transfer Time (Economy Mode) 8 milliseconds typical power failure response in optional economy mode Low Voltage Transfer to Battery 100V High Voltage Transfer to Battery 300V SPECIAL FEATURES Cold-start operation supported Cold-start (Startup in Battery Mode During a Power Failure) Optional economy mode enables high efficiency bypass operation with a maximum output voltage variation of +/-10%. Double conversion mode is automatically restored as mains voltage varies beyond +/-10% with less than 1 millisecond transfer time between modes. High Availability UPS Features Automatic inverter bypass; Manual bypass switch; Detachable hot-swap PDU; Hot swappable UPS power module; Hot swappable batteries Green Energy-Saving Features High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operation Tested to UL1778 (USA); Tested to CSA (Canada); CE; Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances)	WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
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Low Voltage Transfer to Battery Power (Setpoint) High Voltage Transfer to Battery Power (Setpoint) SPECIAL FEATURES Cold Start (Startup in Battery Mode During a Power Failure) Coptional economy mode enables high efficiency bypass operation with a maximum output voltage variation of +/-10%. Double conversion mode is automatically restored as mains voltage varies beyond +/-10% with less than 1 millisecond transfer time between modes. High Availability UPS Features Automatic inverter bypass; Manual bypass switch; Detachable hot-swap PDU; Hot swappable UPS power module; Hot swappable batteries Green Energy-Saving Features High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operation Tested to UL1778 (USA); Tested to CSA (Canada); CE; Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances)	Transfer Time	No transfer time (0 ms.) in online, double-conversion mode
Power (Setpoint) High Voltage Transfer to Battery Power (Setpoint) SPECIAL FEATURES Cold Start (Startup in Battery Mode During a Power Failure) Coptional economy mode enables high efficiency bypass operation with a maximum output voltage variation of +/-10%. Double conversion mode is automatically restored as mains voltage varies beyond +/-10% with less than 1 millisecond transfer time between modes. High Availability UPS Features Automatic inverter bypass; Manual bypass switch; Detachable hot-swap PDU; Hot swappable UPS power module; Hot swappable batteries Green Energy-Saving Features High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operation Tested to UL1778 (USA); Tested to CSA (Canada); CE; Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances)	Transfer Time (Economy Mode)	8 milliseconds typical power failure response in optional economy mode
SPECIAL FEATURES Cold Start (Startup in Battery Mode During a Power Failure) Cold-start operation supported Cold-start oper		100V
Cold Start (Startup in Battery Mode During a Power Failure) Cold-start operation supported Cold-start operation supported Coptional economy mode enables high efficiency bypass operation with a maximum output voltage variation of +/-10%. Double conversion mode is automatically restored as mains voltage varies beyond +/-10% with less than 1 millisecond transfer time between modes. High Availability UPS Features Automatic inverter bypass; Manual bypass switch; Detachable hot-swap PDU; Hot swappable UPS power module; Hot swappable batteries High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operation CERTIFICATIONS UPS Certifications Tested to UL1778 (USA); Tested to CSA (Canada); CE; Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances)		300V
During a Power Failure) Control of Supported Optional economy mode enables high efficiency bypass operation with a maximum output voltage variation of +/-10%. Double conversion mode is automatically restored as mains voltage varies beyond +/-10% with less than 1 millisecond transfer time between modes. High Availability UPS Features Automatic inverter bypass; Manual bypass switch; Detachable hot-swap PDU; Hot swappable UPS power module; Hot swappable batteries High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operation CERTIFICATIONS UPS Certifications Tested to UL1778 (USA); Tested to CSA (Canada); CE; Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances)	SPECIAL FEATURES	
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CERTIFICATIONS UPS Certifications Tested to UL1778 (USA); Tested to CSA (Canada); CE; Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances)	High Availability UPS Features	
UPS Certifications Tested to UL1778 (USA); Tested to CSA (Canada); CE; Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances)	Green Energy-Saving Features	
of Hazardous Substances)	CERTIFICATIONS	
UPS Certification Details IEC 61000-4-5 1995 B Surge Immunity	UPS Certifications	
5/6	UPS Certification Details	



Tripp Lite
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WARRANTY	
Product Warranty Period (Worldwide)	2-year limited warranty

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