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# SmartOnline 208/240V 20kVA 18kW Double-Conversion UPS, N+1, 12U Rack/Tower, Extended Run, SNMPWEBCARD Option, USB, DB9 Serial, Bypass Switch, L6-20R

## MODEL NUMBER: SU20KRT8











## Description

Tripp Lite SU20KRT8 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; 96% Efficient 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
- Expandable runtime with optional external battery packs
- Hardwire input (3 wire); L6-20R and L6-30R outlets

### Package Includes

- Two SU10000RT3UPM UPS power modules
- Two BP240V10RT3U battery packs
- SUPDMB20K8 PDU with Bypass
- · 4-post rackmount installation kit
- PowerAlert software and complete cabling

### **Features**

- Tripp Lite SU20KRT8 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 of power modules at any supported load level
- Hardwire input; 8 L6-20R & 2 L6-30R 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
- Intelligent battery management system extends battery life
- · 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**

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
Crest Factor	3:1
Nominal Output Voltage(s) Supported	200V; 208V; 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%
Output Receptacles	(8) L6-20R; (2) L6-30R
Output Circuit Breakers	8 20A breakers protect one L6-20R outlet each, 2 30A breakers protect one L6-30R outlet each
Output AC Waveform (AC Mode)	Pure Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave



Rated input current (Maximum Load) 112.2A (200V), 108A (208V), 93.6A (240V)  Nominal Input Votage(s) Supported 200V AC; 240V AC  UPS Input Connection Type Hardwire  PS Input Connection Description 2 3wire single phase input (L1, L2, G)  Recommended Electrical Service 125A @ 200V, 208V, or 240V (L1, L2, G)  Input Phase Single-Phase  PATTERY  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 Padovingrasu, BP240V567C-1PH. BP240V1837C-1PH. BP240V1037C-1PH. BP240V103	INPUT		
UPS Input Connection Type  UPS Input Connection Description  Recommended Electrical Service  125A @ 200V, 208V, or 240V (L1, L2, G)  Recommended Electrical Service  Input Phase  Single-Phase  BATTERY  Full Load Runtime (min.)  4.3 minutes (18,000 watts)  Expandable Battery Runtime  Runtime is expandable with external battery packs  External Battery Pack Compatibility  BP240V10RT3U: BP240V587C-1PH: BP240V787C-1PH: BP240V1037C-1PH: BP240V1007C-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 year of connected battery packs  DC System Voltage (VDC)  Battery Recharge Rate (Included Batteries)  Battery Replacement Description  Hot-swappable, user replaceable external battery packs  Expandable Runtime  Yes  VOLTAGE REGULATION  Voltage Regulation Description  Corrects overvoltages up to 300V  Undervoltage Correction  Corrects overvoltages up to 300V  Undervoltage Correction  Corrects undervoltages as low as 100V  USER INTERFACE, ALERTS & CONTROLS  Front Panel LCD Display  Selectable LCD display with scroll and selection buttons enables UPS control and detailed monitoring options; LEDLICE panel rolates for viewing in rack/lower formats; LCD Display supports ENGLISH, FRENCH, GERMAN, ITALIAN, SPANISH and PORTUGUESE (see manual)  LEDLICE palecement  Alarm Cancel Operation  Alarm Cancel Operation  Alarm Cancel Operation  4 LED indicators  6 LEDS indicate line power, online mode, economytrypass mode, on-battery, charger and AC output status; LCD	Rated input current (Maximum Load)	112.2A (200V), 108A (208V), 93.6A (240V)	
UPS Input Connection Description  3 wire single phase input (L1, L2, G)  Recommended Electrical Service  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 (8000 watts)  Expandable Battery Runtime  Runtime is expandable with external battery packs  External Battery Pack Compatibility  BP240V10RT3U: BP240V1557C-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  Battery Recharge Rate (Included Batteries)  Battery Replacement Description  Hot-swappable, user replaceable external battery packs  Expandable Runtime  Yes  VOLTAGE REGULATION  Voltage Regulation Description  Corrects overvoltages up to 300V  Undervoltage Correction  Corrects undervoltages as low as 100V  USER INTERFACE, ALERTS & CONTROLS  Front Panel LCD Display  Switches  2 Switches control office power founded PDU includes bypass switch to enable hot-swap UPS power module replacement  Aum Cancel Operation  Alarm Cancel Operation  Unique audible alarms for all major UPS, environmental and power conditions (see manual)  1 ED Inclinators  6 LED is indicated in power, online mode, economy/bypass mode, on-battery, charger and AC output status, LCD	Nominal Input Voltage(s) Supported	200V AC; 208V AC; 240V AC	
Recommended Electrical Service   125A @ 200V. 208V, or 240V (L1, L2, G)   Input Phase   Single-Phase    BATTERY   Single-Phase    BATTERY   4.3 minutes (18.000 watts)   Half 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 6 hours from 10% to 90% (typical, full load discharge)   Battery Replacement Description   Hot-swappable, user replaceable external battery packs    Voltage Regulation Description   Yes    Voltage Regulation Description   2% output voltage regulation in standard online, double-conversion mode   Overvoltage Correction   Corrects overvoltages up to 300V    Undervoltage Correction   Corrects overvoltages as low as 100V    USER INTERFACE, ALERTS & CONTOLS    Front Panel LCD Display   Selectable LCD display with scroll and selection buttons enables UPS control and detailed monitoring options; LED/LCD panel rolates for viewing in rack/lower formats; LCD Display supports ENGLISH, FRENCH, GERMAN, ITALIAN, SPANISH and PORTIGUESE (see manual)    Switches   2switches control offion 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   Alarm cancel Operation   Alarm and Election power, online mode, economy/bypass mode, on-battery, charger and AC output status; LCD	UPS Input Connection Type	Hardwire	
Input Phase   Single-Phase	UPS Input Connection Description	3 wire single phase input (L1, L2, G)	
BATTERY  Full Load Runtime (min.)	Recommended Electrical Service	125A @ 200V, 208V, or 240V (L1, L2, G)	
Half 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)  Battery Recharge Rate (Included Battery Recharge Rate (Included Batteries)  Battery Replacement Description  Hot-swappable, user replaceable external battery packs  Expandable Runtime  Yes  VOLTAGE REGULATION  Voltage Regulation Description  Corrects overvoltages up to 300V  Undervoltage Correction  Corrects overvoltages up to 300V  Undervoltage Correction  Corrects undervoltages as low as 100V  USER INTERFACE, ALERTS & CONTROLS  Selectable LCD display with scroll and selection buttons enables UPS control and detailed monitoring options; LEDI/CD panel rotates for viewing in rack/tower formats; LCD Display supports ENGLISH, FRENCH, GERMAN, ITALIAN, SPANISH and PORTUGUESE (see manual)  Switches  2 Switches control offfon 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  Alarm Cancel Operation  Alarm Cancel Operation  Alarm Cancel Switch  6 LEDs indicate line power, online mode, economy/bypass mode, on-battery, charger and AC output status; LCD	Input Phase	Single-Phase	
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  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)  Battery Replacement Description  Hot-swappable, user replaceable external battery packs  Expandable Runtime  Yes  VOLTAGE REGULATION  Voltage Regulation Description  Corrects overvoltages up to 300V  Undervoltage Correction  Corrects undervoltages as low as 100V  User INTERFACE, ALERTS & CONTROLS  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)  2 Switches  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  Alarm Cancel Operation  Alarm cancel Switch  6 LEDs indicate line power, online mode, economy/bypass mode, on-battery, charger and AC output status; LCD	BATTERY		
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External Battery Pack Compatibility  BP240V10RT3U: BP240V557C-1PH; BP240V787C-1PH; BP240V107C-1PH; BP240V1407C-1PH  Expandable Runtime Description  Cor System Voltage (VDC)  Battery Recharge Rate (Included Batteries)  Battery Recharge Rate (Included Batteries)  Less than 6 hours from 10% to 90% (typical, full load discharge)  Battery Replacement Description  Hot-swappable, user replaceable external battery packs  Expandable Runtime  Yes  VOLTAGE REGULATION  Voltage Regulation Description  Corrects overvoltages up to 300V  Undervoltage Correction  Corrects undervoltages as low as 100V  USER INTERFACE, ALERTS & CONTROLS  Front Panel LCD Display  Espandable 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)  Switches  2 Switches control offion 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  Alarm Cancel Operation  Alarm cancel switch  Audible Alarm  Unique audible alarms for all major UPS, environmental and power conditions (see manual)  6 LEDs indicate line power, online mode, economy/bypass mode, on-battery, charger and AC output status; LCD	Half Load Runtime (min.)	12.5 minutes (9000 watts)	
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 6 hours from 10% to 90% (typical, full load discharge)  Battery Replacement Description Hot-swappable, user replaceable external battery packs  Expandable Runtime Yes  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  USER INTERFACE, ALERTS & CONTROLS  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)  Switches 2 Switches control offion 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  Alarm Cancel Operation Alarm acnel switch  Audible Alarm Unique audible alarms for all major UPS, environmental and power conditions (see manual)  6 LED Indicators  6 LEDs indicate line power, online mode, economy/bypass mode, on-battery, charger and AC output status; LCD	Expandable Battery Runtime	Runtime is expandable with external battery packs	
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Battery Replacement Description Hot-swappable, user replaceable external battery packs  Expandable Runtime Yes  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  USER INTERFACE, ALERTS & CONTROLS  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)  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  Alarm Cancel Operation Alarm acncel switch  LED Indicators  6 LEDs indicate line power, online mode, economy/bypass mode, on-battery, charger and AC output status; LCD	DC System Voltage (VDC)	240	
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  USER INTERFACE, ALERTS & CONTROLS  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)  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  Alarm Cancel Operation Alarm unique audible alarms for all major UPS, environmental and power conditions (see manual)  IED Indicators  6 LEDs indicate line power, online mode, economy/bypass mode, on-battery, charger and AC output status; LCD	` `	Less than 6 hours from 10% to 90% (typical, full load discharge)	
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Overvoltage Correction  Corrects overvoltages up to 300V  Undervoltage Correction  Corrects undervoltages as low as 100V  USER INTERFACE, ALERTS & CONTROLS  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)  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  Alarm Cancel Operation  Alarm cancel switch  Unique audible alarms for all major UPS, environmental and power conditions (see manual)  LED Indicators  6 LEDs indicate line power, online mode, economy/bypass mode, on-battery, charger and AC output status; LCD	VOLTAGE REGULATION		
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USER INTERFACE, ALERTS & CONTROLS  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)  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  Alarm Cancel Operation  Alarm cancel switch  Unique audible alarms for all major UPS, environmental and power conditions (see manual)  LED Indicators  6 LEDs indicate line power, online mode, economy/bypass mode, on-battery, charger and AC output status; LCD	Overvoltage Correction	Corrects overvoltages up to 300V	
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Front Panel LCD Display  LED/LCD panel rotates for viewing in rack/tower formats; LCD Display supports ENGLISH, FRENCH, GERMÁN, ITALIAN, SPANISH and PORTUGUESE (see manual)  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  Alarm Cancel Operation  Alarm cancel switch  Unique audible alarms for all major UPS, environmental and power conditions (see manual)  LED Indicators	USER INTERFACE, ALERTS & CON	TROLS	
Switches execute scrolling LCD functions; 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, economy/bypass mode, on-battery, charger and AC output status; LCD	Front Panel LCD Display	LED/LCD panel rotates for viewing in rack/tower formats; LCD Display supports ENGLISH, FRENCH, GERMAN,	
Audible Alarm  Unique audible alarms for all major UPS, environmental and power conditions (see manual)  LED Indicators  6 LEDs indicate line power, online mode, economy/bypass mode, on-battery, charger and AC output status; LCD	Switches	execute scrolling LCD functions; bundled PDU includes bypass switch to enable hot-swap UPS power module	
LED Indicators 6 LEDs indicate line power, online mode, economy/bypass mode, on-battery, charger and AC output status; LCD	Alarm Cancel Operation	Alarm cancel switch	
	Audible Alarm	Unique audible alarms for all major UPS, environmental and power conditions (see manual)	
·	LED Indicators		
SURGE / NOISE SUPPRESSION			





UPS AC Suppression Response Time	Instantaneous
EMI / RFI AC Noise Suppression	Yes
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 (U Spaces)	12
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.)	601
Shipping Weight (kg)	272.9
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 Mode BTU / Hr. (Full Load)	6820
AC Economy Mode BTU / Hr. (Full Load)	2558
AC Mode Efficiency Rating (100% Load)	90%
AC Economy Mode Efficiency Rating (100% Load)	96%
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 Interface	USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
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	
LINE / BATTERY TRANSFER Transfer Time	No transfer time (0 ms.) in online, double-conversion mode
	No transfer time (0 ms.) in online, double-conversion mode  8 milliseconds typical power failure response in optional economy mode
Transfer Time	, , , , , , , , , , , , , , , , , , ,
Transfer Time Transfer Time (Economy Mode) Low Voltage Transfer to Battery	8 milliseconds typical power failure response in optional economy mode
Transfer Time  Transfer Time (Economy Mode)  Low Voltage Transfer to Battery Power (Setpoint)  High Voltage Transfer to Battery	8 milliseconds typical power failure response in optional economy mode  100V
Transfer Time  Transfer Time (Economy Mode)  Low Voltage Transfer to Battery Power (Setpoint)  High Voltage Transfer to Battery Power (Setpoint)	8 milliseconds typical power failure response in optional economy mode  100V
Transfer Time Transfer Time (Economy Mode)  Low Voltage Transfer to Battery Power (Setpoint)  High Voltage Transfer to Battery Power (Setpoint)  SPECIAL FEATURES  Cold Start (Startup in Battery Mode	8 milliseconds typical power failure response in optional economy mode  100V  300V
Transfer Time  Transfer Time (Economy Mode)  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)	8 milliseconds typical power failure response in optional economy mode  100V  300V  Cold-start operation 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
Transfer Time  Transfer Time (Economy Mode)  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)  Economy Mode Operation	8 milliseconds typical power failure response in optional economy mode  100V  300V  Cold-start operation 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.
Transfer Time  Transfer Time (Economy Mode)  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)  Economy Mode Operation  High Availability UPS Features	8 milliseconds typical power failure response in optional economy mode  100V  300V  Cold-start operation 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.  Automatic inverter bypass; Hot swappable batteries; Hot swappable UPS power module; Manual bypass switch  High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy



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UPS Certification Details	IEC 61000-4-5 1995 B Surge Immunity	
WARRANTY		
Product Warranty Period (Worldwide)	2-year limited warranty	
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 Ultimate Lifetime Insurance	

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