SmartOnline 230V 1kVA 800W Double-Conversion UPS, 2U Rack/Tower, Extended Run, Network Card Options, USB, DB9 Serial

MODEL NUMBER: **SUINT1000RTXL2UA**

Highlights

- 1000VA / 1kVA / 800 watt on-line double-conversion 2U rack/tower UPS
- 200/208/220/230/240V 50/60Hz output; High efficiency economy mode option
- Expandable runtime; Hot-swap batteries; 13.5 in / 34.3cm installed depth
- USB, RS232 & EPO ports; Network management card options
- Front panel status LEDs with detailed load and battery metering
- C14 inlet, C13 outlets, 2 C13 to C14 power cables included

Package Includes

- SUINT1000RTXL2Ua Rack/Tower UPS System
- USB & DB9 Cabling
- 4-Post Rackmount Installation Hardware
- Warranty Information and Owner's Manual
- 2 IEC C13 to C14 interconnection cables

Description

1000VA online, double-conversion UPS system for critical server, network and telecommunications equipment. 2U rackmount form factor with an installed depth of only 13.5 in (34.3 cm). Expandable battery runtime with optional external battery packs: BP24V15RT2U, BP24V28-2U (maximum of 1 per UPS) or BP24V70-3U (multiple battery packs can be daisy-chained). Full-time sine wave 200, 208, 220, 230 or 240V +/-2% output. Uninterruptible Power Supply (UPS) continuously converts raw incoming AC power to DC, then re-converts output back to completely regulated, filtered AC output. Corrects brownouts as low as 130V and overvoltages as high as 275V without draining battery power. IEC-320-C14 inlet input connection; IEC-320-C13 output receptacles. Network-grade AC surge and noise suppression. Zero transfer time between AC and battery operation. Highly efficient operation in optional Economy Mode setting, saving BTU heat output and energy costs. Network management interfaces support simultaneous communications via USB port, DB9 serial port and slot for network management card options. 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 communications interfaces. PowerAlert monitoring software is available via free download. Emergency Power Off (EPO) interface. 3-stage metered current monitoring and battery charge status LEDs. LED display panel easily rotates for more convenient viewing in rackmount or tower configurations. Data-line surge suppression for dialup, DSL or Ethernet network connection. Utility power and voltage regulation LEDs. Audible alarm. Self-test. Fault-tolerant auto bypass mode. 4-post rackmount accessories included; optional 2-9USTAND tower stand kit and 2POSTRMKITWM 2-post rack & wall-mount accessories available. Field-replaceable, hot-swappable internal batteries and external battery packs. Attractive all-black color scheme.

Features

- True online, double-conversion power conditioning offers network-grade pure sine wave AC power for

critical fileservers, internetworking equipment and other sensitive electronics

- Maintains output within 2% of selectable 200/208/220/230/240V at 50/60Hz (+/-0.05Hz)

- Neutralizes hard-to-solve problems like frequency variations, fast electrical impulses, harmonics and other power problems not addressed by other UPS types

- Zero transfer time, on-line, double-conversion and economy-mode operation supported

- Versatile rack/tower format requires only 2 rack spaces (2U) in rackmount applications

- Maintains AC output at near perfect levels even during extended-duration brownouts as low as 130V and overvoltages to 275V without using battery power. (For loads under 70%, brownout support extends to 130V; for loads over 70%, brownout support extends to 160V)

- During power failures, internal batteries support connected equipment for 12 minutes at half load (500VA / 400W) and 4 minutes at full load (1000VA / 800W)

- Battery backup runtime is expandable with the addition of external 2U or 3U rack/tower battery packs (Part Number BP24V15RT2U (limit 1), BP24V28-2U (limit 1), BP24V70-3U (multi-pack compatible) and BP24V36-2US (multi-pack compatible)

- Intelligent battery management system extends battery life

- Some external battery configurations require the use of Tripp Lite's External Battery Configuration Software (see manual)

- Built-in USB port, DB9 serial port and slot for network management card options are simultaneously addressable and support comprehensive network management features; USB and DB9 serial cables included

- USB & Serial ports enable data-saving unattended shutdown when used with Tripp Lite's PowerAlert software, available via FREE download from www.tripplite.com/poweralert

- Compatible with Tripp Lite UPS management card options TLNETCARD, WEBCARDLX, SNMPWEBCARD and MODBUSCARD

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

- Includes 6 UPS supported IEC-320-C13 output receptacles and two C13 to C14 interconnection cables (additional interconnection cables available - Part Number P004-006)

- IEC320-C14 input connection accepts a variety of detachable cordsets to match country or site-specific wall receptacles

- Fault tolerant electronic bypass maintains utility output during a variety of UPS fault conditions

- Compatible with Tripp Lite's WatchDog software

- Front panel LEDs and audible alarm offer notification of power conditions and full UPS status information

- Optional tower stands allow vertical tower configuration (Part Number 2-9USTAND)

- Optional 2POSTRMKITWM enables 2 post rack / wallmount installation

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

- Optional PDUBHV10 bypass PDU enables hot-swappable UPS replacement with no disruption to connected equipment

Specifications

OVERVIEW	
UPC Code	037332126504
UPS Type	On-Line

OUTPUT	
Output Volt Amp Capacity (VA)	1000
Output kVA Capacity (kVA)	1
Output Watt Capacity (Watts)	800
Power Factor	0.8
Crest Factor	3:1
Nominal Voltage Details	230V default
Frequency Compatibility	50 / 60 Hz
Frequency Compatibility Details	Output frequency matches input nominal on startup, defaults to 50 Hz on cold-start
Output Voltage Regulation (Line Mode)	+/- 2%
Output Voltage Regulation (Economy Line Mode)	+/- 10%
Output Voltage Regulation (Battery Mode)	+/- 2%
Included Output Power Cables	Includes 2 C13 to C14 power cables
Hot-Swap PDU options	PDUBHV10 (2U / 8 C13 outlets)
Output AC Waveform (AC Mode)	Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
Output Capacity Details	OVERLOAD CAPACITY: Supports inverter operation up to 105% load continuously, 125% load for 3 minutes; 150% load for 30 seconds and >150% load for 0.5 seconds before switching to BYPASS (when bypass input voltage and frequency are WITHIN bypass limits) or SHUTDOWN (when bypass input voltage or frequency are OUTSIDE bypass limits)
Nominal Output Voltage(s) Supported	200V; 220V; 230V; 240V
Output Receptacles	(6) C13
Individually Controllable Load Banks	No

INPUT	
Rated input current (Maximum Load)	5.1A (200V), 4.9A (208V), 4.6A (220V), 4.4A (230V), 4.2A (240V)
Nominal Input Voltage(s) Supported	200V AC; 220V AC; 230V AC; 240V AC
UPS Input Connection Type	C14 inlet

UPS Input Connection Description	IEC320-C14 input connection accepts a variety of detachable cordsets to match country or site-specific wall receptacles
Input Circuit Breakers	8A
Input Phase	Single-Phase

BATTERY	
Full Load Runtime (min.)	4 min. (800w)
Half Load Runtime (min.)	12 min. (400w)
Expandable Battery Runtime	Extended runtime supported via optional external battery packs
External Battery Pack Compatibility	BP24V15RT2U (limit 1); BP24V28-2U (limit 1); BP24V70-3U (multi-pack compatible); BP24V36-2US (multi-pack compatible)
DC System Voltage (VDC)	24
Battery Recharge Rate (Included Batteries)	Less than 6 hours from 10% to 80% (typical, full load discharge)
Internal UPS Replacement Battery Cartridge	RBC92-2U
Battery Access	Front panel battery access door
Battery Replacement Description	Hot-swappable, user replaceable batteries
Expandable Runtime	Yes

VOLTAGE REGULATION	
Voltage Regulation Description	Online, double-conversion power conditioning
Overvoltage Correction	2% output voltage regulation during overvoltages to 275
Undervoltage Correction	2% output voltage regulation during undervoltages to 156
Severe Undervoltage Correction	2% output voltage regulation during undervoltages to 130 (under 70% load only)

USER INTERFACE, ALERTS & CONTROLS	
Switches	2 Switches control off/on power status and alarm-cancel/self-test operation
Alarm Cancel Operation	Power-fail alarm can be silenced using alarm-cancel switch
Audible Alarm	Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions
LED Indicators	14 LEDs indicate line power, online mode, economy/bypass mode, on-battery, overload, battery low, replace battery and fault status information; 4-LED meter displays load and battery charge levels; LED panel rotates for viewing in rack/tower formats

SURGE / NOISE SUPPRESSION	
UPS AC Suppression Joule Rating	1225

UPS AC Suppression Response Time	Instantaneous
UPS Dataline Suppression	1 line TEL/DSL (1 in / 1 out); 10/100Base T Ethernet
EMI / RFI AC Noise Suppression	Yes

PHYSICAL	
Cooling Method	Fan
Included Mounting Accessory Description	4 post rackmount installation accessories included
Installation Form Factors Supported with Optional Accessories	2 post rackmount (2POSTRMKITWM); Wallmount (2POSTRMKITWM); Tower (2-9USTAND)
Minimum Required Rack Depth with External Battery Pack (cm)	42
Minimum Required Rack Depth with External Battery Pack (in.)	16.5
Minimum Required Rack Depth without External Battery Pack (cm)	40
Minimum Required Rack Depth without External Battery Pack (in.)	15.75
Primary Form Factor	Rackmount
Primary UPS Depth (mm)	343
Primary UPS Height (mm)	89
Primary UPS Width (mm)	445
Rack Height	2U
Shipping Dimensions (hwd / cm)	22.10 x 50.29 x 59.69
Shipping Dimensions (hwd / in.)	8.70 x 19.80 x 23.50
Shipping Weight (kg)	18.96
Shipping Weight (lbs.)	41.80
UPS Housing Material	Steel
UPS Power Module Dimensions (hwd, cm)	8.89 x 44.45 x 34.29
UPS Power Module Dimensions (hwd, in.)	3.5 x 17.5 x 13.5
UPS Power Module Weight (kg)	12.70
UPS Power Module Weight (lbs.)	28

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)	408
Battery Mode BTU / Hr. (Full Load)	444
AC Mode Efficiency Rating (100% Load)	87%
AC Economy Mode Efficiency Rating (100% Load)	94%

COMMUNICATIONS

Network Management Cards	SNMPWEBCARD ; TLNETCARD ; WEBCARDLX ; MODBUSCARD
Network Monitoring Port Description	Supports detailed monitoring of UPS and site power conditions; DB9 port supports RS232 and contact closure communications; Economy-mode setting option is available using PowerAlert software and DB9 Serial cable connection OR via select Network Management Card options
PowerAlert Software	For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert
Communications Cable	USB and DB9 cabling included
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
Communications Interface	USB (HID enabled); DB9 Serial; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface

LINE / BATTERY TRANSFER

Transfer Time	No transfer time (0 ms.) in online, double-conversion mode
Low Voltage Transfer to Battery Power (Setpoint)	160V (100% load), 130V (<70% load)
High Voltage Transfer to Battery Power (Setpoint)	275

SPECIAL FEATURES

Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Automatic inverter bypass; Hot swappable batteries
Green Energy-Saving Features	High efficiency economy mode operation; Schedulable daily hours of economy mode operation

CERTIFICATIONS

UPS Certifications	CE; Tested to SASO (Saudi Arabia)
UPS Certification Details	Kuwait

WARRANTY

Product Warranty Period (Worldwide)	2-year limited warranty

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