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## Model #: SU10K3/1X

### SmartOnline 10kVA On-Line Double-Conversion UPS, 3 Phase Input, Single Phase Output



#### Highlights

- 10,000 VA (10kVA) extended run tower UPS
- 3-phase hardwire input (220/380, 230/400, 240/415 VAC)
- Single-phase hardwire output (user-selectable 220 or 230 or 240V AC)
- Zero transfer time, on-line, double-conversion operation
- 3 communication ports, SNMP card slot and EPO jack

#### Description

Tripp Lite's SU10K3/1X SmartOnline 3-Phase Intelligent, True On-Line UPS System provides mission-critical equipment with the highest level of power protection available. Large capacity 10,000 VA/8,000 watt power module continually converts incoming AC power into filtered DC power, and then resynthesizes it back into AC power with a pure sine wave. Perfectly regulated, continuous sine wave output with zero transfer time offers compatibility with all equipment types. SmartOnline models provide some of the highest levels of isolation from THD (total harmonic distortion) <3% allowing equipment to perform at its peak. A 3:1 crest factor safely supports a variety of equipment, even those with wildly-fluctuating power demands. Extremely efficient operation (up to 97% efficient in Economy Mode) saves money by lowering electricity consumption. Hardwire input and output connections support a variety of permanent or PDU style power connections. SU10K3/1X includes a power module and an external battery module, both in tower format cabinets. Battery support can be extended with additional external battery modules. A manual bypass switch as well as an automatic bypass function ensure 100% availability of connected equipment by safely passing through AC power when the power module requires maintenance. Three built-in communication ports (RS-232, contact closure and AS-400) work with included PowerAlert Software to simultaneously provide shutdown commands and reporting on multiple servers without the need for costly accessories. An accessory slot accepts an optional internal SNMP card (model # SNMPWEBCARD) for remote shutdowns, reboots and more.

#### Package Includes

- SU10K3/1X UPS System (power module and battery module)
- PowerAlert Software and cabling
- Warranty information
- Instruction manual

#### Features

- True on-line, double conversion UPS provides pure, sine wave AC output at all times
- Maintains continuous operation through blackouts, voltage fluctuations and surges with zero transfer time
- Removes harmonic distortion, electrical impulses, frequency variations and other hard-to-solve power problems
- 10,000VA/8,000 watt power capacity with hardwire input/output connections
- 220/380 or 230/400 or 240/415V AC input and regulating output within 2% of user-selectable 220 or 230 or 240V AC output (single-phase, 2-wire)
- Standard included battery module provides 10 minutes runtime at half load (5,000VA) and 4 minutes runtime at full load (10,000VA)
- 3:1 crest factor safely supports a variety of equipment, even those with wildly-fluctuating power demands
- Extremely efficient operation (up to 97% efficient in Economy Mode) saves money by lowering electricity consumption
- Expandable runtime with multiple external battery modules (model # BP240V10RT-3U)
- 3 communication ports (RS-232, contact closure and AS-400)
- Slot for optional SNMP card ( model # SNMPWEBCARD)
- Manual bypass switch as well as an automatic bypass function ensures 100% availability of connected equipment by safely passing through AC power when the power module requires maintenance
- Battery Start Switch allows cold restart of UPS during a prolonged blackout to utilize its batteries for periodic system access or data retrieval

- PowerAlert Universal UPS Power Management Software and 6 ft. communication cable included
- Combination LCD/LED display
- Built-in Emergency Power Off (EPO) interface supports remote emergency shutdown in large facilities

## Specifications

<b>OUTPUT</b>	
Output Volt Amp Capacity (VA)	10000
Output kVA capacity (kVA)	10
Output Watt Capacity (watts)	8000
Output kW capacity	8
Output power factor	0.8
Crest Factor	3:1
Nominal Output Voltage(s) Supported	220V; 230V; 240V
Nominal Voltage details	Voltage selection via front panel LCD interface
Frequency compatibility	50 / 60 Hz
Output voltage regulation (line mode)	+/- 2%
Output voltage regulation (Battery mode)	+/- 2%
Built-in UPS output receptacles	Hardwire
Output AC waveform (AC mode)	Sine wave
Output AC waveform (battery mode)	Pure Sine wave
<b>INPUT</b>	
Rated input current (at maximum load)	50A
Nominal Input Voltage(s) Supported	220/380 - 230/400 - 240/415V AC 3 phase wye
UPS input connection type	Hardwire
UPS input connection description	220 or 230 or 240V (Y, 3-Phase, 4 Wire)
<b>BATTERY</b>	
Full load runtime (minutes)	4 min. (8000w)
Half load runtime (minutes)	10 min. (4000w)

<b>Expandable battery runtime</b>	Supports extended runtime with optional external battery packs
<b>External battery pack compatibility</b>	BP240V10RT3U; BP240V557C-1PH; BP240V787C-1PH; BP240V1037C-1PH; BP240V1407C-1PH
<b>DC system voltage (VDC)</b>	240
<b>Battery recharge rate (included batteries)</b>	2 - 4 hours from 10% to 90%
<b>Battery replacement description</b>	Hot-swappable, user replaceable batteries
<b>VOLTAGE REGULATION</b>	
<b>Voltage regulation description</b>	Online, double-conversion power conditioning
<b>Overvoltage correction</b>	Maintains continuous operation without using battery power during overvoltages to 485 (Y, 3-Phase, 4 Wire), reducing output within 2% of selected nominal
<b>Undervoltage correction</b>	Maintains continuous operation without using battery power during brownout / undervoltage conditions to 270 (Y, 3-Phase, 4 Wire)
<b>LEDS ALARMS &amp; SWITCHES</b>	
<b>LED Indicators</b>	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
<b>Alarms</b>	Alarms warn against a variety of operational conditions: low-battery, overload, shutdown, bypass and more
<b>Alarm cancel operation</b>	Power-fail alarm can be silenced using alarm-cancel switch
<b>Switches</b>	Rocker switch turns the UPS's inverter ON and OFF. "Select" Button browses through and selects items displayed on the LCD screen. "Battery Start" Switch cold starts the inverter. "Manual Bypass" switch bypasses the UPS's inverter during maintenance.
<b>SURGE / NOISE SUPPRESSION</b>	
<b>UPS AC suppression response time</b>	Instantaneous
<b>EMI / RFI AC noise suppression</b>	Yes
<b>AC suppression response time</b>	Instantaneous
<b>PHYSICAL</b>	
<b>Installation form factors supported with included accessories</b>	Tower
<b>Primary form factor</b>	Tower
<b>UPS / Power Module dimensions in primary form factor (height x width x depth / inches)</b>	22.2 x 11 x 24.8
<b>UPS / Power Module dimensions in primary form factor (height x width x depth / cm)</b>	56.4 x 27.9 x 63

<b>Installed whole system maximum rack depth (cm)</b>	0
<b>UPS / Power Module weight (lbs)</b>	102
<b>UPS / Power Module weight (kg)</b>	46.3
<b>UPS dimensions details</b>	Includes UPS power module and external battery pack
<b>Included battery pack dimensions (height x width x depth / inches)</b>	17.5 x 5.2 x 22.5
<b>Included battery pack dimensions (height x width x depth / cm)</b>	44.4 x 13.3 x 57.2
<b>Included battery pack weight (lbs)</b>	97
<b>Included battery pack weight (kg)</b>	44
<b>Shipping weight (lbs)</b>	317
<b>Shipping weight (kg)</b>	143.9
<b>Cooling method</b>	Fan
<b>UPS housing material</b>	Steel
<b>ENVIRONMENTAL</b>	
<b>Operating Temperature Range</b>	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
<b>Storage Temperature Range</b>	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius
<b>Relative Humidity</b>	0 to 95%, non-condensing
<b>COMMUNICATIONS</b>	
<b>Communications interface</b>	DB9 Serial; Contact closure; Slot for SNMP/Web interface
<b>Network monitoring port description</b>	RS232, contact closure and AS400 monitoring ports are supported by 3 separate DB9 ports
<b>PowerAlert software</b>	Included
<b>Communications cable</b>	DB9 cabling included
<b>LINE / BATTERY TRANSFER</b>	
<b>Transfer time</b>	No transfer time (0 ms.) in online, double-conversion mode
<b>Low voltage transfer to battery power (setpoint)</b>	Maintains continuous operation during undervoltages as low as 270V AC (Y, 3-Phase, 4 Wire). Below this point, output is maintained utilizing battery reserves.
<b>High voltage transfer to battery power (setpoint)</b>	Maintains continuous operation during overvoltages as high as 485V AC (Y, 3-Phase, 4 Wire). Above this point, output is maintained utilizing battery reserves.
<b>SPECIAL FEATURES</b>	

<b>Cold Start (startup in battery mode during a power failure)</b>	Cold-start operation supported
<b>High availability UPS features</b>	Automatic inverter bypass; Hot swappable batteries
<b>Green &amp; high efficiency features</b>	High efficiency economy mode operation; Schedulable daily hours of economy mode operation
<b>WARRANTY</b>	
<b>Product Warranty Period (International)</b>	2-year limited warranty
<b>Product Warranty Period (Mexico)</b>	2-year limited warranty
<b>Product Warranty Period (Puerto Rico)</b>	2-year limited warranty

## Related Items

### Optional Products

Related Model	Description	Qty.
<a href="#">AS400CABLE KIT</a>	Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers	1
<a href="#">BP240V10RT3U</a>	External Battery Pack and Cable. 3U, Expandable, Black 3-Point Connector	1
<a href="#">BP240V1037C-1PH</a>	External battery pack for use with select Tripp Lite UPS Systems	1
<a href="#">BP240V1407C-1PH</a>	External battery pack for use with select Tripp Lite UPS Systems	1
<a href="#">BP240V557C-1PH</a>	External battery pack for use with select Tripp Lite UPS Systems	1
<a href="#">BP240V787C-1PH</a>	External battery pack for use with select Tripp Lite UPS Systems	1
<a href="#">ENVIROSENSE</a>	Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)	1
<a href="#">SNMPWEBCARD</a>	For remote monitoring and control via SNMP, Web, or Telnet.	1

More information, including related products, owner's manuals, and additional technical specifications, can be found online at [www.tripplite.com/en/products/model.cfm?txtModelID=2815](http://www.tripplite.com/en/products/model.cfm?txtModelID=2815).

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