

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

MODEL NUMBER: **SU10K3/1X**



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.

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](#))

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

Package Includes

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



- 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

OUTPUT	
Output Volt Amp Capacity (VA)	10000
Output kVA Capacity (kVA)	10
Output Watt Capacity (Watts)	8000
Output kW Capacity (kW)	8
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%
Output Receptacles	Hardwire
Output AC Waveform (AC Mode)	Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
INPUT	
Rated input current (Maximum Load)	50A
Nominal Input Voltage(s) Supported	220/380V 3-PH Wye; 230/400V 3-PH Wye; 240/415V 3-PH Wye
UPS Input Connection Type	Hardwire
UPS Input Connection Description	220 or 230 or 240V (Y, 3-Phase, 4 Wire)
BATTERY	
Full Load Runtime (min.)	4 min. (8000w)
Half Load Runtime (min.)	10 min. (4000w)
Expandable Battery Runtime	Supports extended runtime with optional external battery packs



External Battery Pack Compatibility	BP240V10RT3U; BP240V557C-1PH; BP240V787C-1PH; BP240V1037C-1PH; BP240V1407C-1PH
DC System Voltage (VDC)	240
Battery Recharge Rate (Included Batteries)	2 - 4 hours from 10% to 90%
Battery Replacement Description	Hot-swappable, user replaceable batteries
VOLTAGE REGULATION	
Voltage Regulation Description	Online, double-conversion power conditioning
Overvoltage Correction	Maintains continuous operation without using battery power during overvoltages to 485 (Y, 3-Phase, 4 Wire), reducing output within 2% of selected nominal
Undervoltage Correction	Maintains continuous operation without using battery power during brownout / undervoltage conditions to 270 (Y, 3-Phase, 4 Wire)
USER INTERFACE, ALERTS & CONTROLS	
Switches	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.
Alarm Cancel Operation	Power-fail alarm can be silenced using alarm-cancel switch
Audible Alarm	Alarms warn against a variety of operational conditions: low-battery, overload, shutdown, bypass and more
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
SURGE / NOISE SUPPRESSION	
UPS AC Suppression Response Time	Instantaneous
EMI / RFI AC Noise Suppression	Yes
AC Suppression Response Time	Instantaneous
PHYSICAL	
Installation Form Factors Supported with Included Accessories	Tower
Primary Form Factor	Tower
UPS Power Module Dimensions (hwd, in.)	22.2 x 11 x 24.8
UPS Power Module Dimensions (hwd, cm)	56.4 x 27.9 x 63
Maximum Device Depth (cm)	0
UPS Power Module Weight (lbs.)	102
UPS Power Module Weight (kg)	46.27
UPS Dimensions Details	Includes UPS power module and external battery pack
Included Battery Pack Dimensions (hwd / in.)	17.5 x 5.2 x 22.5



Included Battery Pack Weight (lbs.)	97
Included Battery Pack Weight (kg)	44.00
UPS Shipping Dimensions (hwd / cm)	0 x 0 x 0
Shipping Weight (lbs.)	317
Shipping Weight (kg)	143.9
Cooling Method	Fan
UPS Housing Material	Steel
Primary UPS Height (mm)	564
Primary UPS Width (mm)	279
Primary UPS Depth (mm)	630
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
COMMUNICATIONS	
Communications Interface	DB9 Serial; Contact closure; Slot for SNMP/Web interface
Network Monitoring Port Description	RS232, contact closure and AS400 monitoring ports are supported by 3 separate DB9 ports
PowerAlert Software	Included
Communications Cable	DB9 cabling included
LINE / BATTERY TRANSFER	
Transfer Time	No transfer time (0 ms.) in online, double-conversion mode
Low Voltage Transfer to Battery Power (Setpoint)	Maintains continuous operation during undervoltages as low as 270V AC (Y, 3-Phase, 4 Wire). Below this point, output is maintained utilizing battery reserves.
High Voltage Transfer to Battery Power (Setpoint)	Maintains continuous operation during overvoltages as high as 485V AC (Y, 3-Phase, 4 Wire). Above this point, output is maintained utilizing battery reserves.
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
WARRANTY	
Product Warranty Period (International)	2-year limited warranty



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Product Warranty Period (Mexico)	2-year limited warranty
Product Warranty Period (Puerto Rico)	2-year limited warranty

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