

## SmartOnline 3-Phase UPS System - 3-Phase on-line, double-conversion protection for mission critical applications

MODEL NUMBER: **SU30K3/3X**



### Description

Tripp Lite's SU30K3/3X SmartOnline 3-Phase Intelligent, True On-Line UPS System provides mission-critical equipment with the highest level of power protection available. Large capacity 30,000 VA/24,000 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. SU30K3/3X features user-selectable 3-phase 220/380 or 230/400 or 240/415V AC input and output. Wide input voltage correction range (176-288/304-499V AC). Frequency is 50 or 60 Hz (auto-selectable). SU30K3/3X 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. A Battery Start Switch allows cold restart of UPS during a prolonged blackout to utilize its batteries for periodic system access or data retrieval. An Emergency Power Off button turns UPS output OFF and disables Bypass output. Built-in Emergency Power Off (EPO) interface supports remote emergency shutdown in large facilities. Front panel combination LCD/LED display alerts users to a variety of UPS operational modes and conditions.

### Features

- True on-line, double conversion UPS provides pure, sine wave AC output at all times

### Highlights

- 30,000 VA (30kVA) tower UPS with internal modular battery system
- User-selectable 3-phase 220/380 or 230/400 or 240/415V AC input and output. Wide input voltage correction range (156-280V AC/270-485V AC)
- IGBT technology and zero transfer time, on-line, double-conversion operation
- Saves valuable space: power and battery components combined into a single small-footprint module
- Expandable runtime with additional internal battery modules
- 3 communication ports, SNMP card slot and EPO jack

### Applications

- Ideal for protecting critical 220/380 or 230/400 or 240/415V equipment in server rooms, internetworking closets and telecommunications systems.

### Package Includes

- SU30K3/3X UPS System (power and battery components in one compact modular housing)
- PowerAlert Software and cabling
- Instructional manual with warranty information



- Saves valuable space: power and battery components combined into a single small-footprint module
- Simplifies runtime scalability: convenient front-panel battery access for expandable runtime with additional internal battery packs
- 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
- 30,000VA/24,000 watt power capacity with hardwire input/output connections
- User-selectable 3-phase 220/380 or 230/400 or 240/415V AC input and output. Wide input voltage correction range (156-280V AC/270-485V AC)
- Standard included battery module provides 13 minutes runtime at half load (12,000 watts) and 5 minutes runtime at full load (24,000 watts)
- 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 additional internal battery modules and optional external modular battery frames
- 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
- Emergency Power Off button turns UPS output OFF and disables Bypass output
- PowerAlert Universal UPS Power Management Software and cabling included
- **2-year power module and 1-year batteries limited repair or replacement warranty**
- Combination LCD/LED display
- Built-in Emergency Power Off (EPO) interface supports remote emergency shutdown in large facilities

## Specifications

OUTPUT	
Frequency Compatibility	50 / 60 Hz
Output (VA)	30000
Output (Watts)	24000
Output Nominal Voltage	220/380, 230/400 or 240/415V AC, 3-phase, 4-wire (plus ground), wye
Output Voltage Regulation	Maintains pure sine wave output at all times, regulated within 2% of selected nominal output voltage, less than 3% total harmonic distortion
Output Frequency Regulation	Regulates line frequency at 50 or 60 Hz, +/- 3 Hz
INPUT	
Recommended Electrical Service	220/380 or 230/400 or 240/415V AC
Maximum Input Amps	45
Maximum Input Amps Details	45A/43A/41A
Input Connection Type	Hardwire
Voltage Compatibility (VAC)	220/380: 230/400: 240/415: 3-Phase
BATTERY	



Expandable Battery Runtime	Supports extended runtime with optional internal battery modules. Accepts 2 additional SURBC2030 internal battery modules along with additional external battery frames (model # SUBF2030)
DC System Voltage (VDC)	240
Battery Access	External Battery Module can be hot-swapped with a replacement Battery Module
Full Load Runtime	Included internal batteries: 5 min. (24,000 watts). Runtime can be extended with additional SURBC2030 internal battery modules.
Half Load Runtime	Included internal batteries: 13 min. (12,000 watts). Runtime can be extended with additional internal battery packs (model # SURBC2030).
Battery Pack Accessory (Optional)	SURBC2030 (optional internal battery modules) and SUBF2030 (optional standalone external battery frame)
Typical Battery Lifespan	3 - 6 years, depending on usage
Battery Charge	2 - 4 hours to 90%
<b>VOLTAGE REGULATION</b>	
Voltage Regulation Description	On-line, double-conversion process gives this UPS the ability to maintain output voltage within +/-2% of selected nominal voltage at all times
Overvoltage Correction	Maintains continuous operation without using battery power during overvoltages to 280 / 485V AC (Y, 3-Phase, 4 Wire), reducing output within 2% of selected nominal
Brownout Correction	Maintains continuous operation without using battery power during brownout / undervoltage conditions to 156 / 270V AC (Y, 3-Phase, 4 Wire)
<b>LEDS ALARMS &amp; SWITCHES</b>	
Audible Alarm	Alarms warn against a variety of operational conditions: low battery, overload, shutdown, bypass and more
Switches	"ON" button turns UPS's inverter ON. "OFF" button turns UPS's inverter OFF. "Select" Button browses through items displayed on LCD screen. "Enter" button selects items displayed on LCD screen. "Select" and "Enter" buttons used simultaneously mute UPS alarms. "Battery Start" Switch cold starts the inverter. "Emergency Power Off" button turns UPS output OFF and disables Bypass output. "Manual Bypass" switch bypasses the UPS's inverter during maintenance.
Front Panel LEDs	7 LED DISPLAY: AC input, bypass input, AC-DC charger, DC-AC inverter, AC output, bypass operation and battery operation. SELECTABLE LCD DISPLAY: indicates a wide range of UPS operational and fault/warning conditions including operational mode, alarm/shutdown conditions, input/output voltage/frequency, battery voltage, load percentage and more.
<b>SURGE / NOISE SUPPRESSION</b>	
EMI / RFI AC Noise Suppression	Yes
AC Suppression Response Time	Instantaneous
<b>PHYSICAL</b>	
Shipping Dimensions (hwd / in.)	43 x 28 x 44.5
Shipping Dimensions (hwd / cm)	109 x 71 x 113
Shipping Weight (lbs.)	715
Shipping Weight (kg)	325
Unit Dimensions (hwd / in.)	35 x 19.5 x 37
Unit Dimensions (hwd / cm)	89 x 49.5 x 94



Unit Weight (lbs.)	627
Unit Weight (kg)	285
Cooling Method	Built-in cooling fans
Material of Construction	Steel
Form Factors Supported	Tower
<b>ENVIRONMENTAL</b>	
Storage Temperature Range	-36 to +104 degrees Fahrenheit, -20 to +40 degrees Celsius
Relative Humidity	5 to 95%, non-condensing
Operating Temperature	+32 to +104 degrees Fahrenheit, 0 to +40 degrees Celsius
<b>COMMUNICATIONS</b>	
Network Monitoring Port	Includes 3 built-in communications ports (RS-232, contact closure and AS-400)
EPO Port	Includes dedicated EPO (emergency power off) interface and cabling
SNMP Compatibility	Built-in accessory slot accommodates internal SNMP card (model # SNMPWEBCARD) and other network accessories
<b>LINE / BATTERY TRANSFER</b>	
Transfer Time (Line Power to Battery Mode)	Zero transfer time. True on-line UPS continuously converts incoming AC to DC, then back to AC. When line power is interrupted, UPS maintains continuous output from battery reserves with absolutely no disruption in output AC power.
Low Voltage Transfer to Battery Power	Maintains continuous operation during undervoltages as low as 156 / 270V AC (Y, 3-Phase, 4 Wire). Below this point, output is maintained utilizing battery reserves.
High Voltage Transfer to Battery Power	Maintains continuous operation during overvoltages as high as 280 / 485V AC (Y, 3-Phase, 4 Wire). Above this point, output is maintained utilizing battery reserves.
<b>SPECIAL FEATURES</b>	
Cold Start	Yes, inverter can be cold-started (with use of Battery Start Switch) to enable temporary AC output during a power failure
<b>CERTIFICATIONS</b>	
Certifications	CE, GOST, SASO
<b>WARRANTY</b>	
Product Warranty Period (Worldwide)	2-year power module and 1-year battery module limited warranty
Optional Coverage	Extended warranties as well as on-site service contracts available for select opportunities. Contact Tripp Lite.