

SmartOnline 3-Phase 120/208V 30kVA 24kW Double-Conversion UPS, Extended Run, 5 internal batteries, Network Card Options, Tower, DB9 Serial, Hardwire

MODEL NUMBER: **SU30K3/3XR5**



Description

Tripp Lite's SU30K3/3XR5 30kVA SmartOnline 3-Phase Intelligent, True On-Line Extended Runtime UPS System has been redesigned to save valuable space and simplify runtime scalability. Power and battery components are combined into a single, small-footprint module (the smallest in its class). A robust internal battery runtime capability can be easily extended by installing additional optional internal battery packs through the convenient front panel access door. The SU30K3/3XR5 features a large internal battery compartment that contains more internal batteries than the equivalent standard-run model ([SU30K3/3](#)) and more space to add additional optional internal battery packs to extend runtime. The SU30K3/3XR5 provides mission critical equipment with the highest level of power protection available. Large capacity 30,000VA/24,000 watt UPS 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. IGBT inverter technology produces output power with <3% THD (total harmonic distortion), allowing connected 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 saves money by lowering electricity consumption. Hardwire input and output connections support a variety of permanent or PDU style power connections. SU30K3/3XR5 features 120/208V AC, 3-phase, 4-wire (plus ground), wye input and output. It also features a wide input voltage correction range: 96 -144/166-250V AC. Frequency is 50 or 60 Hz (auto-selectable). SU30K3/3XR5 includes internal power and battery components in a single small-footprint tower module. Battery support can be extended with additional internal battery packs. 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 UPS requires maintenance. Three built-in communication ports (RS-232, contact closure and AS-400) work with PowerAlert Software, available via free download, to simultaneously provide shutdown commands and reporting on multiple servers without the need for costly accessories. An accessory slot accepts an optional network management card option. 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. A start-up service program is recommended to enhance the reliability of the installation.

Features

Highlights

- 30,000 VA (30kVA) EXTENDED RUNTIME tower UPS with 5 internal battery packs
- Offers 11 minutes full load (20kVA) and 25 minutes half load (10kVA)
- 3-phase hardwire input and output (120/208VAC). Wide input voltage correction range (96 - 144V AC / 166 - 250V AC)
- IGBT technology and zero transfer time, on-line, double-conversion operation
- 3 communication ports, slot for network management card options and EPO jack

Package Includes

- SU30K3/3XR5 UPS System (with 5 internal battery packs)
- PowerAlert Software and cabling
- Warranty information
- Instruction manual



- Large internal battery compartment contains more internal batteries than the equivalent standard-run model ([SU30K3/3](#)) and more space to add additional optional internal battery packs to extend runtime. 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
- True on-line, double conversion UPS with IGBT technology 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
- 30,000VA/24,000 watt power capacity with 3-phase, hardwire 120/208V AC input/output connections
- Features a wide input voltage correction range: 96 - 144/166 - 250V AC
- 61 minutes runtime at half load (11,300 watts) based on adding 3 [SURBC2030](#) battery packs and 11 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
- Extend runtime by installing optional internal battery packs (model # [SURBC2030](#)) through the front panel access door. SU30K3/3XR5 includes 5 internal battery packs and accepts 3 additional internal battery packs. A standalone battery module compartment with a 4 battery pack capacity and daisy-chain capability (model # [SUBF2030](#)) is available to further extend runtime.
- 3 communication ports (RS-232, contact closure and AS-400)
- Compatible with Tripp Lite UPS management card options [TLNETCARD](#), [WEBCARDLX](#), [SNMPWEBCARD](#), [MODBUSCARD](#) and [RELAYIOCARD](#)
- Manual bypass switch as well as an automatic bypass function ensures 100% availability of connected equipment by safely passing through AC power when the UPS system 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
- Serial port enables data-saving unattended shutdown when used with Tripp Lite's PowerAlert software, available via FREE download from www.tripplite.com/poweralert
- Built-in Emergency Power Off (EPO) interface supports remote emergency shutdown in large facilities
- Combination LED/LCD display
- Start-up service program is recommended to enhance the reliability of the installation

Specifications

| OUTPUT | |
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| Output Volt Amp Capacity (VA) | 30000 |
| Output kVA Capacity (kVA) | 30 |
| Output Watt Capacity (Watts) | 24000 |
| Output kW Capacity (kW) | 24 |
| Power Factor | 0.8 |
| Crest Factor | 3:1 |
| Nominal Output Voltage(s) Supported | 120/208V 3-PH Wye |
| Frequency Compatibility | 50 / 60 Hz |
| Output Voltage Regulation (Line Mode) | +/- 2% |
| Output Voltage Regulation (Battery Mode) | +/- 2% |



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| Output Receptacles | Hardwire |
| Output AC Waveform (AC Mode) | Pure Sine wave |
| Output AC Waveform (Battery Mode) | Pure Sine wave |
| INPUT | |
| Rated input current (Maximum Load) | 90A (per phase, online) |
| Nominal Input Voltage(s) Supported | 120/208V 3-PH Wye |
| Nominal Input Voltage Description | 3-Phase Wye, 4 wire (L1, L2, L3, N, G) |
| UPS Input Connection Type | Hardwire |
| Input Phase | 3-Phase |
| BATTERY | |
| Full Load Runtime (min.) | 11 min. (24kw) |
| Half Load Runtime (min.) | 25 min. (12kw) |
| Expandable Battery Runtime | Supports extended runtime with optional external battery packs |
| External Battery Pack Compatibility | SURBC2030 ; SUBF2030 (holds 4 SURBC2030) |
| Expandable Runtime Description | Includes a battery housing with space for 3 internal SURBC2030 battery packs for extended runtime. Additional runtime capacity is available by adding SUBF2030 and additional SURBC2030 batteries - see runtime chart for specific recommendations |
| DC System Voltage (VDC) | 240 |
| Battery Recharge Rate (Included Batteries) | 2 - 4 hours from 10% to 90% |
| Internal UPS Replacement Battery Cartridge | SURBC2030 |
| Battery Access | Front panel internal battery access door |
| Battery Replacement Description | Hot-swappable, replaceable batteries |
| Expandable Runtime | Yes |
| VOLTAGE REGULATION | |
| Voltage Regulation Description | Online, double-conversion power conditioning |
| Overvoltage Correction | Maintains continuous operation without using battery power during overvoltages to 144 / 250 (3-Phase, 4-Wire, wye), reducing output within 2% of nominal |
| Undervoltage Correction | Maintains continuous operation without using battery power during brownout / undervoltage conditions to 96 / 166 (3-Phase, 4-Wire, wye) |
| USER INTERFACE, ALERTS & CONTROLS | |
| Front Panel LCD Display | 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 (see manual) |



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| 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. |
| 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 | 7 LED DISPLAY: AC input, bypass input, AC-DC charger, DC-AC inverter, AC output, bypass operation and battery operation |
| SURGE / NOISE SUPPRESSION | |
| EMI / RFI AC Noise Suppression | Yes |
| AC Suppression Joule Rating | 2032 |
| AC Suppression Response Time | Instantaneous |
| PHYSICAL | |
| Installation Form Factors Supported with Included Accessories | Tower |
| Primary Form Factor | Tower |
| UPS Power Module Dimensions (hwd, in.) | 50.9 x 19.5 x 36.8 |
| UPS Power Module Dimensions (hwd, cm) | 129.29 x 49.53 x 93.47 |
| UPS Power Module Weight (lbs.) | 935 |
| UPS Power Module Weight (kg) | 424.11 |
| UPS Shipping Dimensions (hwd / in.) | 61.5 x 31 x 44.5 |
| UPS Shipping Dimensions (hwd / cm) | 156.21 x 78.74 x 113.03 |
| Shipping Weight (lbs.) | 1152 |
| Shipping Weight (kg) | 523 |
| Cooling Method | Fans |
| UPS Housing Material | Steel |
| Primary UPS Height (mm) | 1293 |
| Primary UPS Width (mm) | 495 |
| Primary UPS Depth (mm) | 935 |
| Shipping Height (mm) | 1562 |
| Shipping Width (mm) | 787 |
| Shipping Depth (mm) | 1130 |
| ENVIRONMENTAL | |



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| 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 | 5 to 95%, non-condensing |
| AC Mode BTU / Hr. (Full Load) | 3150 |
| Battery Mode BTU / Hr. (Full Load) | 1940 |
| COMMUNICATIONS | |
| Communications Interface | DB9 Serial; Contact closure; Slot for SNMP/Web interface |
| Network Management Cards | SNMPWEBCARD ; TLNETCARD ; WEBCARDLX ; MODBUSCARD ; RELAYIOCARD |
| Network Monitoring Port Description | RS232, contact closure and AS400 monitoring ports are supported by 3 separate DB9 ports |
| 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 | 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 96 / 166V AC (3-Phase, 4-Wire, wye). Below this point, output is maintained utilizing battery reserves. |
| High Voltage Transfer to Battery Power (Setpoint) | Maintains continuous operation during overvoltages as high as 144 / 250V AC (3-Phase, 4-Wire, wye). 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 |
| CERTIFICATIONS | |
| UPS Certifications | Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI) |
| WARRANTY | |
| Product Warranty Period (U.S. & Canada) | 1-year limited warranty |
| Product Warranty Period (International) | 2-year limited warranty |
| Product Warranty Period (Mexico) | 1-year limited warranty |
| Product Warranty Period (Puerto Rico) | 2-year limited warranty |



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Tripp Lite uses primary and third-party agencies to test its products for compliance with standards. See a list of Tripp Lite's testing agencies:

<https://www.tripplite.com/products/product-certification-agencies>