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

MODEL NUMBER: SU20K3/3X



Description

Tripp Lite's SU20K3/3X 20kVA SmartOnline 3-Phase Intelligent, True Online 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 modular internal battery packs through the convenient front panel access door.

Tripp Lite's SU20K3/3X SmartOnline 3-Phase Intelligent, True On-Line UPS System provides mission-critical equipment with the highest level of power protection available. Large capacity 20,000 VA/16,000 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. SU20K3/3X features 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). Frequency is 50 or 60 Hz (auto-selectable). SU20K3/3 includes internal power and battery components in a single small-footprint tower module. Battery support can be extended with additional internal battery modules and optional modular external battery frames. 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
- Maintains continuous operation through blackouts, voltage fluctuations and surges with zero transfer

Highlights

- 20,000 VA (20kVA) 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

Package Includes

- SU20K3/3X UPS System (power module and battery module)
- PowerAlert Software and cabling
- Warranty information
- Instruction manual



time

- Removes harmonic distortion, electrical impulses, frequency variations and other hard-to-solve power problems
- 20,000VA/16,000 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 (8,000 watts) and 5 minutes runtime at full load (16,000 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 multiple external battery modules (model # BP240V33)
- 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 6 ft. communication cable included
- 2-year power module and 1
- Combination LCD/LED display
- Built-in Emergency Power Off (EPO) interface supports remote emergency shutdown in large facilities

Specifications

| OVERVIEW | |
|-------------------------------|--------------|
| UPC Code | 037332121264 |
| OUTPUT | |
| Output Volt Amp Capacity (VA) | 20000 |
| Output kVA Capacity (kVA) | 20 |
| Output Watt Capacity (Watts) | 16000 |
| Output kW Capacity (kW) | 16 |
| Power Factor | 0.8 |
| Crest Factor | 3:1 |



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|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal Output Voltage(s) Supported | 220/380V 3-PH Wye; 230/400V 3-PH Wye; 240/415V 3-PH Wye |
| 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) | 30A / 29A / 28A |
| Nominal Input Voltage(s) Supported | 220/380V 3-PH Wye; 230/400V 3-PH Wye; 240/415V 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.) | 5 min. (16kw) |
| Half Load Runtime (min.) | 13 min. (8kw) |
| 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 2 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 | No |
| VOLTAGE REGULATION | |



| | |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage Regulation Description | Online, double-conversion power conditioning |
| Oversvoltage Correction | Maintains continuous operation without using battery power during oversvoltage to 280 / 485 (Y, 3-Phase, 4 Wire), reducing output within 2% of selected nominal |
| Undersvoltage Correction | Maintains continuous operation without using battery power during brownout / undervoltage conditions to 156 / 270 (Y, 3-Phase, 4 Wire) |
| 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) |
| 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 | |
| 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.) | 35.3 x 19.3 x 37 |
| UPS Power Module Dimensions (hwd, cm) | 89.66 x 49.02 x 93.98 |
| UPS Power Module Weight (lbs.) | 502 |
| UPS Power Module Weight (kg) | 227.70 |
| Cooling Method | Fans |
| UPS Housing Material | Steel |
| Primary UPS Height (mm) | 897 |
| Primary UPS Width (mm) | 490 |
| Primary UPS Depth (mm) | 940 |
| ENVIRONMENTAL | |
| Operating Temperature Range | +32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius |



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|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 156 / 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 280 / 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 |
| CERTIFICATIONS | |
| UPS Certifications | Tested to GOST (Russia); Tested to SASO (Saudi Arabia); ROHS (Restriction of Hazardous Substances) |
| WARRANTY | |
| Product Warranty Period (Worldwide) | 2-year limited warranty |

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