

# SmartOnline SUTX Series 3-Phase 220/380V, 230/400V, 240/415V 40kVA 40kW On-Line Double-Conversion UPS, Tower, Extended Run, SNMP Option

MODEL NUMBER: **SUTX40K**



3-phase UPS system protects connected mission-critical equipment against damage, downtime and data loss due to blackouts, brownouts, power surges and line noise.

## Description

The SUTX40K SmartOnline® SUTX Series 3-Phase 220/380V, 230/400V or 240/415V 40kVA 40kW On-Line Double-Conversion UPS provides battery backup and AC power protection against power disturbances that can damage electronics or destroy data. It's recommended for critical data center, LAN/WAN and distributed server room applications.

The SUTX40K's Voltage and Frequency Independent (VFI) design allows continuous operation at any supported voltage at either 50 or 60 Hz. Zero transfer time to battery mode ensures no disruption to the attached loads. Automatic and Manual Bypass keeps connected equipment powered, even during overloads and UPS maintenance.

IGBT inverter technology produces output power with 1% total harmonic distortion (THD) to keep connected equipment functioning at its peak. A 3:1 crest factor safely supports a variety of loads, even those with wildly fluctuating power demands.

Managing the SUTX40K is simplified through the multi-language LCD interface, which displays critical operating conditions and diagnostic data, such as battery and load status. Four LEDs indicate bypass, line, battery and fault modes. A built-in card slot supports the optional WEBCARDLXE network management card for network interface and remote monitoring and control.

## Features

### VFI True On-Line Double-Conversion 3-Phase UPS System

- Provides fully regulated sine wave AC output for critical data center, LAN/WAN and distributed server room applications
- +/-1% output voltage regulation in online and battery modes
- 1.0 unit power factor offers 40kVA/40kW output capacity, allowing for more connected devices
- Supports 380/220V, 400/230V or 415/240V at 50/60 Hz in continued operation
- Wide input voltage window (228–477V) minimizes battery use and prolongs battery life

### Reliable Battery Backup with Expandable Runtime

- Supports half load for 15.5 min. and full load for 5.9 min. with standard internal battery
- Zero transfer time suitable for advanced network applications
- Expandable runtime with optional external battery packs, such as BP480V09

## Highlights

- On-line double-conversion topology, VFI operation
- Automatic and Manual Bypass for enhanced reliability
- Add optional WEBCARDLXE with latest version of PADM20 for enhanced remote management
- Internal batteries and expandable runtime options
- Paralleling capability of up to 4 units

## Package Includes

- SUTX40K SmartOnline SUTX Series 3-Phase 220/380V, 230/400V, 240/415V 40kVA 40kW On-Line Double-Conversion UPS
- RS-232 (DB9) cable
- Owner's manual



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- Restarts automatically after lengthy power outages

#### IGBT Inverter Technology

- Produces output power with 1% THD to keep connected equipment functioning at its peak
- Low <4% THDi input rating and advanced IGBT rectifier enables 1:1 generator sizing, eliminating costly oversizing requirements for generators, breakers and cables

#### Paralleling Capability

- Connect up to 4 units in parallel configuration for fault tolerance or increased capacity up to 160kVA

#### Automatic and Manual Bypass

- Allows maintenance without removing power from attached loads
- Increases system reliability

#### ECO Mode

- Operates at efficiency levels as high as 99% when input line conditions are favorable

#### Optional Network Management Card

- Optional WEBCARDLXE (sold separately) with the latest version of PowerAlert Device Manager firmware (PADM20) provides enhanced remote management capabilities
- PADM20 and PowerAlert Element Manager (PAEM) form a powerful tool for expanding maintenance functions in large installations, including firmware update checks and backup and restoration of device configurations

#### Communications Ports

- DB9 port enables data-saving unattended shutdown when used with PowerAlert software (available via free download at [tripplite.eaton.com/products/power-alert](http://tripplite.eaton.com/products/power-alert))
- EPO port supports emergency shutdown in large facilities

#### Single, Compact Cabinet

- May be installed with either single or dual AC sources for increased availability

## Specifications

OVERVIEW	
UPC Code	037332186744
UPS Type	On-Line
INPUT	
Input Phase	3-Phase
Rated input current (Maximum Load)	60.6A (220/380V) / 58A (230/400V) / 55.6A (240/415V)
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 Circuit Breakers	100A 4 pole breaker (415V)
OUTPUT	
Output Capacity (VA)	40000



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Output Capacity (kVA)	40
Output Capacity (Watts)	40000
Output Capacity (kW)	40
Power Factor	1
Crest Factor	3:1
Nominal Voltage Details	Factory default output voltage is 230/400V
Frequency Compatibility	50 / 60 Hz
Frequency Compatibility Details	Automatic frequency selection
Output Voltage Regulation (Line Mode)	+/-1%
Output Voltage Regulation (Economy Line Mode)	+/- 10% of nominal voltage
Output Voltage Regulation (Battery Mode)	+/-1%
Output AC Waveform (AC Mode)	Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
Nominal Output Voltage(s) Supported	220/380V 3-PH Wye; 230/400V 3-PH Wye; 240/415V 3-PH Wye
Output Receptacles	Hardwire
Individually Controllable Load Banks	No
<b>BATTERY</b>	
Runtime Full Load (min.)	5.9 min. (40kW)
Runtime Half Load (min.)	15.5 min. (20kW)
Expandable Runtime	Yes
Expandable Runtime Description	External battery pack wiring is contractor supplied
External Battery Pack Compatibility	BP480V09
DC System Voltage (VDC)	+/- 240VDC
Battery Recharge Rate (Included Batteries)	8.1 hours from 10 to 90%
Battery Replacement Description	Hot-swappable, replaceable batteries
<b>VOLTAGE REGULATION</b>	
Voltage Regulation Description	Online, double-conversion power conditioning
Overvoltage Correction	Maintains continuous operation without using battery power during overvoltages to 477V (3-phase, 4-wire, wye), reducing output within 1% of nominal
Undervoltage Correction	Maintains continuous operation without using battery power during brownout/undervoltage conditions to 228V (70% load); 300V (100% load)
<b>USER INTERFACE, ALERTS &amp; CONTROLS</b>	

Front Panel LCD Display	Front panel LCD with scroll and enter buttons offers display of UPS operating mode, plus voltage and frequency information; LCD also reports a variety of alarm conditions such as Short circuit, Inverter fail and Over temperature; Supports English, French, German, Russian, Portuguese, Spanish and Turkish language options
Switches	ON button turns UPS inverter on. OFF button turns UPS inverter off. LCD Display Control Buttons browse through and select items displayed on LCD screen. EPO (Emergency Power Off) button turns UPS output off and disables Bypass output
Alarm Cancel Operation	Power-fail alarm can be silenced using alarm-cancel switch
Audible Alarm	Alarms signal a variety of operational conditions: low-battery, overload, shutdown, bypass and more
LED Indicators	4-LED Display: Displays normal AC input, on battery power and fault conditions
<b>SURGE / NOISE SUPPRESSION</b>	
EMI / RFI AC Noise Suppression	Yes
AC Suppression Joule Rating	8320
AC Suppression Response Time	Instantaneous
<b>PHYSICAL</b>	
Primary Form Factor	Tower
Cooling Method	Fans
Installation Form Factors Supported with Included Accessories	Tower
Primary UPS Depth (mm)	841
Primary UPS Height (mm)	1,400
Primary UPS Width (mm)	490
Shipping Dimensions (hwd / in.)	64.60 x 28.50 x 39.80
Shipping Dimensions (hwd / cm)	164.08 x 72.39 x 101.09
Shipping Weight (lbs.)	925.90
Shipping Weight (kg)	419.98
UPS Housing Material	Steel
UPS Power Module Dimensions (hwd, cm)	139.95 x 49.02 x 84.07
UPS Power Module Dimensions (hwd, in.)	55.1 x 19.3 x 33.1
UPS Power Module Weight (kg)	382.83
UPS Power Module Weight (lbs.)	844
Unit Dimensions (hwd / in.)	55.100 x 19.300 x 33.100
Unit Weight (lbs.)	844.4
Unit Weight (kg)	383.01
<b>ENVIRONMENTAL</b>	
Operating Temperature Range	32° to 104°F (0° to 40°C)
Storage Temperature Range	4° to 104°F (-20° to 40°C)



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Relative Humidity	Up to 95%, non-condensing
AC Mode BTU / Hr. (Full Load)	7030
AC Economy Mode BTU / Hr. (Full Load)	1740
AC Mode Efficiency Rating (100% Load)	95%
AC Economy Mode Efficiency Rating (100% Load)	99%
Battery Mode Heat Dissipation (BTU/Hr) @ Full Load	1379
Operating Elevation	0-3280 ft. (0-1000 m)
Audible Noise	Less than 60dBA at 1m front side
<b>COMMUNICATIONS</b>	
Network Management Cards	<a href="https://tripplite.eaton.com/MODBUS-Management-Accessory-Card-UPS-Remote-Monitoring-Control-MODBUSCARD">MODBUSCARD</a> and <a href="https://tripplite.eaton.com/Network-Card-Eaton-Tripp-Lite-Series-UPS-Systems-WEBCARDLXE">WEBCARDLXE</a>
PowerAlert Software	Available via free download from <a href="https://tripplite.eaton.com/products/power-alert">https://tripplite.eaton.com/products/power-alert</a>
Communications Cable	DB9 cabling included
Communications Interface	DB9 Serial; Slot for SNMP/Web interface
<b>LINE / BATTERY TRANSFER</b>	
Transfer Time	No transfer time (0 ms.) in online, double-conversion mode
Low Voltage Transfer to Battery Power (Setpoint)	Maintains continuous operation without using battery power during brownout/undervoltage conditions to 228VAC (70% load) / 300VAC (100% load). Below this point, output is maintained utilizing reserve battery power
High Voltage Transfer to Battery Power (Setpoint)	Maintains continuous operation without using battery power during overvoltages to 477VAC, reducing output within 1% of nominal. Above this point, output is maintained utilizing reserve battery power
<b>FEATURES &amp; SPECIFICATIONS</b>	
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Automatic inverter bypass; Hot swappable batteries; Auto Probe Monitoring (requires WEBCARDLXE); Zero transfer time; On-Line/Double-Conversion
Green Energy-Saving Features	High efficiency economy mode operation; Schedulable daily hours of economy mode operation
Grounding Details	Yes
IP68 Rated	No
IP20 Rated	No
<b>APPLICATIONS</b>	
UPS Applications	Mission Critical Applications
<b>STANDARDS &amp; COMPLIANCE</b>	
Product Certifications	IEC/EN 62040



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Product Compliance	RoHS; CE (Europe)
WARRANTY & SUPPORT	
Product Warranty Period (U.S. & Canada)	1-year limited warranty
Product Warranty Period (International)	2-year limited warranty
Product Warranty Period (Mexico)	2-year limited warranty
3-Phase Warranty Statement	<a href="#">Tripp Lite 3-Phase UPS Factory Warranty</a>

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