



SmartOnline[®] SUTX 3-Phase UPS System

20 & 40 kVA

380/400/415V (Ph-Ph) 3-Phase, 4-Wire

- Voltage and Frequency Independent
- Unity Output Power Factor (1,0)
- High Efficiency
- Parallel Architecture
- Intelligent LCD Interface



Today's constantly connected, heavily digitised and power-hungry commercial environments demand an ever-increasing supply of clean electricity to maintain 24x7x365 operations.

Tripp Lite's SmartOnline SUTX-Series Uninterruptible Power Supply (UPS) is a Voltage and Frequency Independent (VFI) true on-line, double conversion 3-Phase UPS system which provides the highest level of power protection and conditioning to mission-critical systems. The SUTX UPS system continuously conditions the incoming electrical power supply, eliminating power fluctuations and interruptions that will otherwise damage sensitive electronic devices and cause system downtime.

SmartOnline SUTX UPS systems apply the latest in Digital Signal Processor (DSP) control technology and an output power factor of 1,0 unity. Offering a best-in-class efficiency of 95% during normal operation and 99% in Economy Mode, the SmartOnline SUTX reduces energy losses and cooling overhead for cost-saving operation.

With two rated power levels – 20kVA and 40kVA – and paralleling capability for up to four units, the SUTX UPS systems offer multiple capacity options to suit even the most demanding load requirements.

SmartOnline SUTX Features

Tripp Lite's SUTX UPS provides the highest level of power protection to mission-critical systems.

MAXIMUM RELIABILITY

Voltage & Frequency Independent (VFI)

True on-line double conversion technology provides the highest level of UPS protection available.

Automatic & Maintenance Bypass

Delivered as standard for maximum reliability. The load remains supported during heavy overloads, maintenance and repairs.

Wide Input Voltage Window

Regulates voltage without using battery to maximise battery life and prolong lifetime system use.

Parallel Capability

Combine up to four UPS systems for redundancy or to increase power capacity.

Dual Input

Allows two independent AC sources to power the UPS.

HIGH PERFORMANCE

Zero Transfer Time

Seamless transfer from utility to battery ensures no impact on load behaviour following a power loss.

Internal Batteries

Space-saving batteries provide ample time to perform a graceful shutdown of the connected load following a prolonged power failure.

High Charging Capacity

Minimises recharge time, allowing the UPS to ride through multiple power failures in rapid succession.

Battery Self-Test

Ensures no surprises.

OPTIMUM EFFICIENCY

ECO Mode Operation

Offers 99% efficiency to reduce operation costs. A 95% operation in inverter mode means fewer power losses, reducing cooling costs and environmental impact.

High Unity Output Power Factor

A 1,0 power factor provides more actual power to the load so that more equipment may be protected with a single UPS.

Low Input Total Harmonic Distortion (THDi)

No interference with connected equipment and eliminates the need for oversized generators.

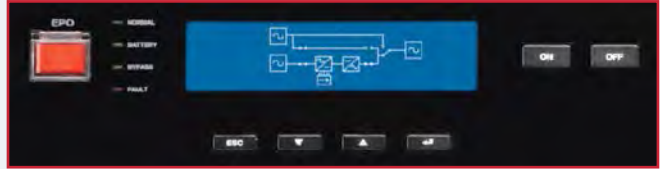
High Input Power Factor

Minimises installation costs.

HIGH CONFIGURABILITY

Intelligent LCD Control Panel

Provides immediate UPS status and allows for enhanced custom user configuration.



Intelligent LCD Control Panel

Connectivity

Connect simple local or remote management accessories, using Tripp Lite's free PowerAlert® Power Management Software download. Also provides volt-free contacts.

Accessory Card Slots

Supports a variety of remote management cards (sold separately) for comprehensive monitoring and control over a network.

Emergency Power Off (EPO)

Executes immediate power shutoff for maximum site safety.



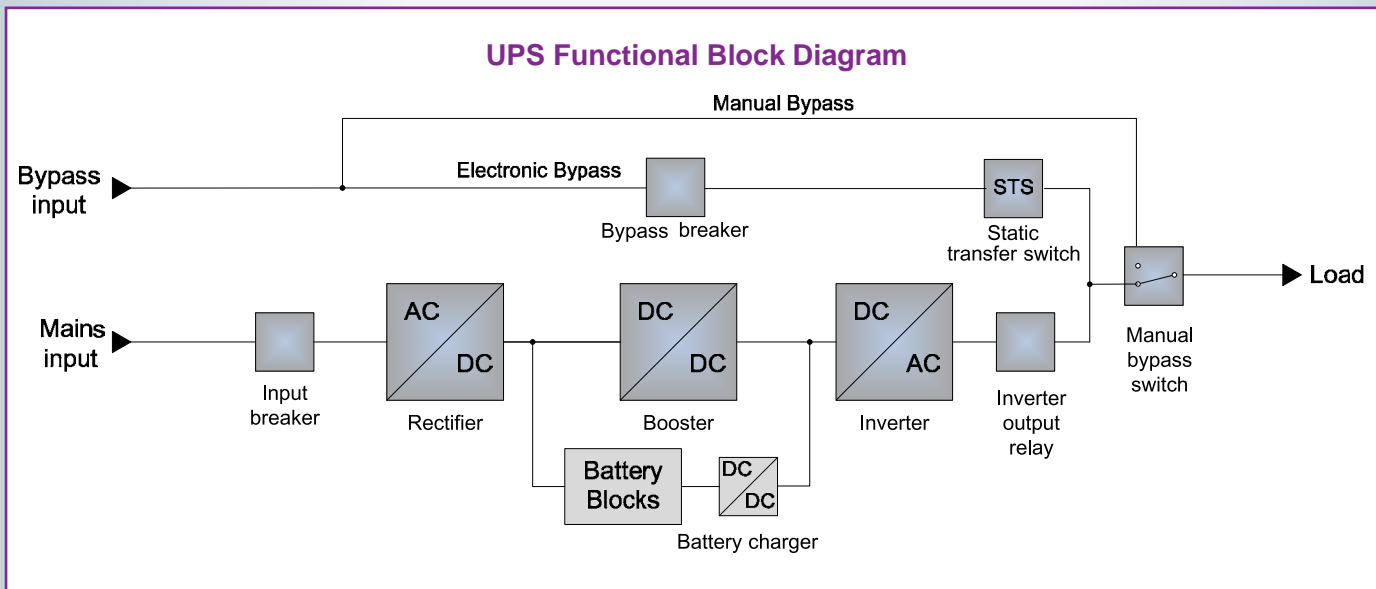
SUTX20K & SUTX40K Front and Rear Panel

SmartOnline SUTX Technical Specifications

OVERVIEW		
MODEL	SUTX20K	SUTX40K
CAPACITY	20 kVA / 20 kW	40 kVA / 40 kW
TOPOLOGY	Voltage & Frequency Independent (VFI) True On-Line Double Conversion	
INPUT		
Voltage	380/400/415V (Ph-Ph); 220/230/240V (Ph-N)	
Voltage Range	300-477V (100% load)	
Phase	Three Phase, Neutral and Ground	
Operating Frequency	50/60 Hz (Selectable)	
Frequency Range	40-70 Hz	
Power Factor	>0,99%	
THDi	5%	4%
Inverter Bridge	IGBT Technology	
OUTPUT		
Voltage	380/400/415V (Ph-Ph); 220/230/240V (Ph-N)	
AC Voltage Regulation	+/- 1%	
Frequency	50/60 Hz (Selectable)	
Frequency Range	+/- 0,05 Hz	
Overload (AC & Battery Mode)	105% (Continuous)	
	106 - 125% (10 min.)	
	126 - 150% (1 min.); >150% (1 sec.)	
Crest Factor	3:1	
Harmonic Distortion	1% (Linear Load), 3% (Non-Linear Load)	1% (Linear Load), 2% (Non-Linear Load)
Transfer Time (Line to/from Battery)	0 ms	
Transfer Time (Inverter to/from Bypass)	0 ms	
Output Waveform	Sine Wave	
BYPASS		
Automatic Bypass	Standard	
Manual Bypass	Standard	
Transfer Time	0 ms	
Default Bypass Voltage Tolerance	+/- 15%	
Overload	105% (Continuous)	
	106 - 125% (10 min.)	
	126 - 150% (1 min.)	
	>150% (1 sec.)	
BATTERY		
Battery Type	Maintenance-Free Sealed Valve-Regulated Lead-Acid (VRLA)	
Battery Capacity	12V 9Ah	
Quantity	40 x 2 Strings	
Battery Charging Capacity	1,5A - 5A (Default: 1,5A)	1,5A - 5A (Default: 2A)
Float Voltage	272V DC +/- 2%	
Boost Voltage	280V DC +/- 2%	
End of Discharge Voltage	192V DC +/- 2%	
Battery Storage Time	6 Months (Without Recharge, 25°C)	
BATTERY RUNTIME		
50% / 75% / 100% Load	33 / 21 / 14 min.	14 / 8 / 5 min.
ENVIRONMENT		
Efficiency (Line Mode, 100% Load)	95%	
Efficiency (ECO Mode, 100% Load)	99%	
Operating Temperature	0 - 40°C (For Optimal Battery Life: 17 - 25°C)	
Operating Humidity	0 - 95% (Non-Condensing)	
Operating Altitude	<1000 m (1% Derating per 100 m Above 1000 m)	
Audible Noise	<55 dBA @ 1 m	<60 dBA @ 1 m
Degree of Protection (Enclosure)	IP20	

SmartOnline SUTX Technical Specifications (continued)

MANAGEMENT		
Multifunctional LCD		Standard
RS-232 (DB9 Serial)		Standard
Volt Free Contacts		Standard
Network Interface Card (SNMP)		Optional
MODBUS		Optional (MODBUSCARD)
Frequency Converter Mode		Programmable
Parallel Connection Capability		Up to 4 Units
EPO (Emergency Power Off)		Standard
STANDARDS		
Safety		IEC/EN 62040-1
EMC		IEC/EN 62040-2; IEC/EN 61000-4-2; IEC/EN 61000-4-3
Surge		IEC/EN 61000-4-5 Level 4
Conduction Immunity		IEC/EN 61000-4-6
Approvals		TUV
RoHS		Yes
PHYSICAL		
Dimensions (H x W x D)		1400 x 490 x 840 mm
Unit Weight	363 kg	383 kg
Shipping Dimensions (H x W x D)		1642 x 725 x 1010 mm
Shipping Weight	400 kg	420 kg
Cabinet Colour		RAL 9005 (Black)
WIRING		
Input (Ph)		6 mm ²
Output (Ph)		16 mm ²



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