



Common Applications IT Networks | Electromedical | Telecom Industrial | Process Control | Emergency Systems Any Critical Application

SmartOnline[®] SUT 3-Phase UPS System

20/30/40/60 kVA

208/220V (Ph-Ph) 3-Phase, 4-Wire

- Voltage and Frequency Independent
- Unity (1.0) Output Power Factor
- High Efficiency
- Parallel Architecture
- Intelligent LCD Interface

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

Tripp Lite's SmartOnline SUT Series UPS systems provide the highest level of power protection and conditioning to mission-critical systems. The SUT Series features voltage and frequency independent (VFI) true on-line, double-conversion 3-phase operation, meeting the standards of VFI-SS-111, the highest classification.

The SUT UPS systems deliver pure sine wave output to all connected loads, correcting power fluctuations and keeping loads running during blackouts, power sags and surges. Incoming utility power is also conditioned, ensuring that harmonics, frequency fluctuations and other power abnormalities do not damage connected hardware or cause system downtime.

In the event of a power outage, SUT Series UPS systems immediately transfer to battery power with zero transfer time, supporting critical equipment until generator power starts up and stabilizes. SUT UPS systems also offer graceful, automatic shutdown of the load to prevent data loss or corruption.

The SUT Series features four rated power levels and paralleling capability for up to four units to meet the most demanding load requirements. Plus, 93% efficiency during normal operation and 98% efficiency in economy mode reduce energy losses and cooling expenses for cost-saving operation.

SmartOnline SUT Features

Tripp Lite's SUT 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.

Wide Input Voltage Window

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

Parallel Capability

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

HIGH PERFORMANCE

Zero Transfer Time

Seamless transfer from utility to battery ensures no impact on load behavior 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

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

Battery Self-Test

Ensures no surprises.

OPTIMUM EFFICIENCY

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.

ECO Mode Operation

Offers 98% efficiency to reduce operation costs. More than 93% efficiency in line mode means fewer power losses, reducing cooling costs and environmental impact.

Low Input Total Harmonic Distortion (THDi)

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

High Input Power Factor

Minimizes 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

Slots support a variety of remote management cards (sold separately) for comprehensive monitoring and control over a network. Compatible with SNMP and MODBUS protocols.

Emergency Power Off (EPO)

Executes immediate power shutoff for maximum site safety.





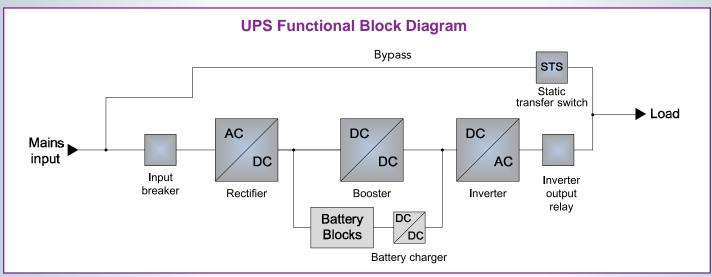
SUT30K Front and Rear Panel

SmartOnline SUT Technical Specifications

OVERVIEW					
MODEL	SUT20K	SUT30K	SUT40K	SUT60K	
CAPACITY	20kVA / 20kW	30kVA / 30kW	40kVA / 40kW	60kVA / 60kW	
TOPOLOGY	Voltage and Frequency Independent (VFI) True On-Line Double Conversion				
INPUT	, energe en	·····	(,		
Voltage		208/220V/ (Ph. Ph)	· 120/127\/ (Ph. NI)		
Voltage Range	208/220V (Ph-Ph); 120/127V (Ph-N) 125 – 253V (Ph-Ph)				
Phase			ral and ground		
Operating Frequency					
Frequency Range	50/60 Hz (selectable) 40 – 70 Hz				
Power Factor	40 - 70 HZ >0.99				
THDi	<4% <3%				
Inverter Bridge			chnology	1070	
-			linology		
Ουτρυτ	000/00				
Voltage	208/220V (Ph-Ph); 3-ph, 4-wire, neutral reference to bypass neutral				
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%: 0.5 sec.				
Crest Factor	001		:1	201	
Harmonic Distortion	<2%	<2%	<2%	<3%	
Transfer Time (Line to/from Battery)	0 ms				
Transfer Time (Inverter to/from Bypass)	0 ms				
Output Waveform	Pure sine wave				
BYPASS					
Automatic Bypass	Standard				
Transfer Time	<1 ms				
Default Bypass Voltage Tolerance	+/- 15%				
Overload	105%: continuous 106% - 125%: 10 min.				
	126% - 150%: 1 min. >150%: 0.5 sec.				
DATTOV		~130%.	0.0 sec.		
BATTERY	Ν.4.				
Battery Type	Maintenance-free sealed valve-regulated lead acid (VRLA) 12V 9Ah				
Battery Capacity Quantity	48	72	7An 72	96	
Battery Charging Capacity	1-10A (default 5A)	1-10A (default 7.5A)	1-20A (default 7.5A)	1-20A (default 10A)	
Float Voltage					
Boost Voltage	163.2 VDC +/- 2V 168 VDC +/- 2V				
End of Discharge Voltage	100 VDC +/- 2V 120 VDC +/- 2V				
Battery Storage Time	6 months (without recharge, 77°F/25°C)				
BATTERY RUNTIME 50% / 75% / 100% Load	15 / 9 / 5 min.	15 / 9 / 6 min.	11 / 6 / 3.5 min.	9.5 / 5 / 3 min.	
	13/7/311111.	13/7/011111.	117073.3 Min.	7.57 57 5 Min.	
ENVIRONMENT			20/		
Efficiency (Line Mode)	>93%				
Efficiency (ECO Mode)	98% 32° to 104°F (for optimal battery life, 62° to 77°F); 0° to 40°C (for optimal battery life, 17° to 25°C)				
Operating Temperature	0 to 95% (non-condensing)				
Operating Humidity	3280 ft. (1% deration per 328 ft. above 3280 ft.); <1000 m (1% deration per 100 m above 1000 m)				
Operating Altitude Audible Noise @ 3 ft. / 1 m	<52 dBA <70 dBA				
Protection Degree	IP20				
	1	IP	20		

SmartOnline SUT Technical Specifications (continued)

MODEL	SUT20K	SUT30K	SUT40K	SUT60K	
MANAGEMENT					
Multifunctional LCD	Standard				
RS-232 (DB9 Serial)	Standard				
Relay Interface	Standard				
SNMP	Option				
MODBUS	Option				
Frequency Converter Mode	Programmable				
Paralleling Capability	Up to 4				
EPO (Emergency Power Off)	Standard				
STANDARDS					
Safety	UL 1778; CSA C22.2 No. 107.3-14				
EMC	FCC Part 15 Class A; IEC/EN62040-2; IEC/EN61000-4-2; IEC/EN61000-4-3				
Surge	IEC/EN61000-4-5 level 4				
Conduction Immunity	IEC/EN61000-4-6				
Approvals	UL/cUL				
PHYSICAL					
Unit Dimensions (H x W x D)	54.3 x 20.5 x 31.5 in. (1380 x 521 x 800 mm)		69.3 x 20.5 x 31.5 in. (1760 x 521 x 800 mm)		
Unit Weight	767 lb. (348 kg)	926 lb. (420 kg)	1076 lb. (488 kg)	1244 lb. (564 kg)	
Shipping Dimensions (H x W x D)	62 x 28 x 39 in. (157	0 x 720 x 1000 mm)	76 x 28 x 39 in. (1920 x 720 x 1000 mm)		
Shipping Weight	855 lb. (388 kg)	1014 lb. (460 kg)	1186 lb. (538 kg)	1355 lb. (615 kg)	
Color	RAL 9005 (Jet Black)				
WIRING SPECIFICATIONS					
AC Input Cable*	2 AWG (25 mm²)	1/0 AWG (50 mm²)	3/0 AWG (95 mm²)	250 kcmil (120 mm²)	
Output Cable*	2 AWG (25 mm²)	1/0 AWG (50 mm²)	3/0 AWG (95 mm²)	250 kcmil (120 mm²)	
Battery Input Cable*	1 AWG (35 mm²)	1/0 AWG (50 mm²)	3/0 AWG (95 mm²)	250 kcmil (120 mm²)	
Tightening Torque	130 in. lb. (14.7 N·m)	130 in. lb. (14.7 N·m)	130 in. lb. (14.7 N·m)	130 in. lb. (14.7 N·m)	
Input Breaker	75A (3-pole x 1)	125A (3-pole x 1)	150A (3-pole x 1)	225A (3-pole x 1)	



ABOUT TRIPP LITE

Since 1922, Tripp Lite has established a global reputation for quality manufacturing, superior value and excellent service. Tripp Lite makes over 4,000 products to power, protect and connect electronic equipment, including UPS systems, replacement batteries, power distribution units, rack systems, cooling solutions, surge protectors, KVM switches, cables, display solutions, power strips and inverters. Learn more at www.tripplite.com.

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