

SmartOnline SUT Series 3-Phase 208/120V 220/127V 60kVA 60kW On-Line Double- Conversion UPS, Tower, Extended Run, SNMP Option

MODEL NUMBER: **SUT60K**



3-phase UPS system protects mission-critical network equipment against downtime and data loss in data center, telecom, medical, manufacturing and financial environments.

Description

The SUT60K SmartOnline® SUT Series 3-Phase 208/120V 220/127V 60kVA 60kW On-Line Double-Conversion UPS provides complete protection against power interruptions and fluctuations that can contribute to equipment failures and data loss. It's recommended for critical data center, telecommunications, computer network, manufacturing and financial applications.

The Voltage and Frequency Independent (VFI) design allows continuous operation at either 50 or 60 Hz. Zero transfer time from online to battery mode ensures no disruption to attached equipment loads. Offering an efficiency of 94% during normal operation and 98% in economy mode, the SUT60K reduces energy losses for cost-saving operation. Automatic bypass keeps connected equipment powered, even during overloads and many potential UPS fault conditions.

IGBT inverter technology produces output power with less than 2% total harmonic distortion (THDi) 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 SUT60K 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 AC, bypass, battery and fault modes. A built-in card slot supports optional remote management cards, such as WEBCARDLX, for comprehensive monitoring and control over a network.

Features

VFI True On-Line Double-Conversion 3-Phase UPS System Provides fully regulated sine wave AC output for critical data center, telecom, computer network, light industrial and financial applications +/-1% output voltage regulation in online and battery modes 1.0 unity power factor with 60kVA/60kW output capacity offers higher capacity than competing 0.8 and 0.9 PF designs Supports 208/120V or 220/127V at 50/60 Hz Wide input voltage window (125–253V) minimizes battery use and prolongs battery life
Reliable Battery Backup with Expandable Runtime Supports half load for 9.6 min. and full load for 3.1 min. with standard internal batteries Optional BP288VEBP external battery packs provide additional runtime Sine wave output with zero transfer time compatible with all equipment types

Highlights

- On-line double-conversion topology, VFI operation
- 1.0 unity power factor supports 60kVA/60kW capacity
- Up to 98% economy-mode efficiency option saves energy
- Internal batteries included with external battery pack options
- Parallel up to 4 units for increased capacity or N+N fault tolerance redundancy

Package Includes

- SUT60K SmartOnline SUT Series 3-Phase 60kVA 60kW On-Line Double-Conversion UPS
- RS-232 (DB9) cable
- Owner's manual



IGBT Inverter Technology Produces output power with <2% THD to keep connected equipment functioning at its peak
Low <4% full load 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 N+N fault tolerance redundancy or increased power capacity up to 240kVA

Automatic Bypass Maintains output power to connected equipment during a variety of potential UPS fault conditions

Economy Model Increases operating efficiency levels as high as 98% when input line conditions are favorable

Remote Management Card Options Compatible with Tripp Lite UPS card accessories, such as WEBCARDLX, that enable comprehensive monitoring and control over a network

Communications Ports DB9 (RS-232) port enables data-saving unattended shutdown when used with PowerAlert® software (free download at www.tripplite.com/poweralert) EPO port supports Emergency Power Off shutdown

Standard Compliance Tested to UL 1778 5th Edition, CSA C22.2 No. 107.3, NOM, FCC Part 15 Class A (EMC), GB17626-2/IEC 61000-4-2 (Electrostatic Discharge) Level 4, GB17626-3 (Radio-Frequency Electromagnetic Fields) Level 3, GB17626-4 (Fast Transient/Burst) Level 4, GB17626-5/IEC 61000-4-5 (Surge) Level 4 and RoHS

Specifications

OVERVIEW	
UPC Code	037332186720
UPS Type	On-Line
INPUT	
Rated input current (Maximum Load)	200A (120/208V); 190A (120/208V)
Nominal Input Voltage(s) Supported	120/208V 3-PH Wye; 127/220V 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	225A 3 pole 240V breaker
Input Phase	3-Phase
Power Factor (Input)	>0.99 (maximum resistive load)
THDi	<4% (maximum resistive load)
OUTPUT	
Output Volt Amp Capacity (VA)	60000
Output kVA Capacity (kVA)	60
Output Watt Capacity (Watts)	60000
Output kW Capacity (kW)	60
Output Capacity Details	Supports parallel connection of up to 4 SUT60K systems for 240kVA max capacity or N+N fault tolerance redundancy; Supports up to 100% load continuously, 125% load for up to 10 minutes, 149% load for up to 1 minute and over 150% load for up to 0.5 seconds before transferring to bypass mode; Automatic inverter restart is available when the load level recovers to 95% or less after overload-related transfer to bypass
Power Factor	1.0



Crest Factor	3:1
Nominal Voltage Details	Factory default output voltage is 120/208V; Less than 2% THD (full resistive load); Less than 0.1V Max DC Offset; Less than 2° Max Phase Angle Deviation; Less than 1% Max Voltage Unbalance Deviation
Frequency Compatibility	50 / 60 Hz
Frequency Compatibility Details	Auto-selectable frequency configuration
Output Voltage Regulation (Line Mode)	±1%
Output Voltage Regulation (Economy Line Mode)	±10%
Output Voltage Regulation (Battery Mode)	±1%
Output Circuit Breakers	Electronic AC output protection; Short-circuit protection
Output AC Waveform (AC Mode)	Pure Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
Nominal Output Voltage(s) Supported	120/208V 3-PH Wye; 127/220V 3-PH Wye
Output Receptacles	Hardwire
Individually Controllable Load Banks	No
BATTERY	
Full Load Runtime (min.)	3.1 minutes (60kW)
Half Load Runtime (min.)	9.6 minutes (30kW)
Expandable Battery Runtime	Supports extended runtime with optional external battery packs
External Battery Pack Compatibility	 BP288VEBP
Expandable Runtime Description	External battery pack wiring is contractor supplied
DC System Voltage (VDC)	±144VDC
Battery Recharge Rate (Included Batteries)	3.2 hours from 10 to 90%; Battery charge current adjustable from 1 to 20A (10A factory default)
Expandable Runtime	Yes
VOLTAGE REGULATION	
Voltage Regulation Description	Online, double-conversion power conditioning maintains ±1% output voltage regulation
Overvoltage Correction	Maintains continuous operation without using battery power during overvoltages to 253V
Undervoltage Correction	Maintains continuous operation without using battery power during brownout/undervoltage conditions to 125V (63% load or less); 166V (100% load)
USER INTERFACE, ALERTS & CONTROLS	
Front Panel LCD Display	Front panel LCD with scroll and enter buttons offers display of UPS operating mode, site power and UPS condition monitoring and operating configuration options; LCD also reports alarm conditions, including Short circuit, Inverter fail and Over temperature; Supports English, French, German, Russian, Portuguese, Spanish, Turkish and Polish language options



Switches	ON button turns UPS system on; OFF button turns UPS system off; SELECT/ENTER UP and SELECT/ENTER DOWN buttons enable on-screen selection and navigation options; 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	Four LEDs indicate AC mode (Green), Bypass (Yellow), Battery (Yellow) and Fault (Red) modes
SURGE / NOISE SUPPRESSION	
EMI / RFI AC Noise Suppression	Yes
AC Suppression Joule Rating	9220
AC Suppression Response Time	Instantaneous
PHYSICAL	
Cooling Method	Fans
Installation Form Factors Supported with Included Accessories	Tower
Primary Form Factor	Tower
Primary UPS Depth (mm)	800
Primary UPS Height (mm)	1,760
Primary UPS Width (mm)	521
Shipping Dimensions (hwd / cm)	242.90 x 76.56 x 155.63
Shipping Dimensions (hwd / in.)	95.63 x 30.14 x 61.27
Shipping Weight (kg)	628.68
Shipping Weight (lbs.)	1386.00
UPS Housing Material	Steel
UPS Power Module Dimensions (hwd, cm)	176.02 x 52.07 x 80.01
UPS Power Module Dimensions (hwd, in.)	69.3 x 20.5 x 31.5
UPS Power Module Weight (kg)	421.84
UPS Power Module Weight (lbs.)	930
ENVIRONMENTAL	
Operating Temperature Range	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
Storage Temperature Range	+4 to +104 degrees Fahrenheit / -20 to +40 degrees Celsius
Relative Humidity	Up to 95%, non-condensing
AC Mode BTU / Hr. (Full Load)	15800
AC Economy Mode BTU / Hr. (Full Load)	1880



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Battery Mode BTU / Hr. (Full Load)	10784
AC Mode Efficiency Rating (100% Load)	93%
AC Economy Mode Efficiency Rating (100% Load)	99%
Operating Elevation (ft.)	0 to 10,000 feet, but derates 1% per 328 feet above 3280 feet
Audible Noise	Less than 70dBA at 1m front side
Operating Elevation (m)	0 to 3000m, but derates 1% per 100m above 1000m
COMMUNICATIONS	
Network Management Cards	 SNMPWEBCARD WEBCARDLX MODBUSCARD RELAYIOCARD
Network Monitoring Port Description	Additional built-in set of INPUT and OUTPUT contacts support remote notification of Online Mode operation, Battery Mode operation, Bypass Mode operation, Abnormal Bypass Source, Battery Test Fail and Low Battery conditions
PowerAlert Software	Available via free download from www.tripplite.com/poweralert
Communications Cable	DB9 cabling included
Communications Interface	DB9 Serial; Slot for SNMP/Web interface
LINE / BATTERY TRANSFER	
Transfer Time	Online mode: No transfer time (0 ms.); Economy mode: 6 ms. (AC to battery), 1 ms. (Battery to AC)
Low Voltage Transfer to Battery Power (Setpoint)	Maintains continuous operation without using battery power during brownout/undervoltage conditions to 125VAC (under 63% load) / 160VAC (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 253VAC, reducing output within 1% of nominal. Above this point, output is maintained utilizing reserve battery power
SPECIAL FEATURES	
Grounding Lug	Yes
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 WEBCARDLX); Zero transfer time; On-Line/Double-Conversion
Green Energy-Saving Features	High efficiency economy mode operation; Schedulable daily hours of economy mode operation
STANDARDS & COMPLIANCE	
UPS Certifications	Meets FCC Part 15 Category A (EMI); Tested to CSA (Canada); Tested to NOM (Mexico); Tested to UL1778 (USA)
UPS Certification Details	IEC 61000-4-2 (Electrostatic Discharge) Contact: 8KV, Air: 15K; IEC 61000-4-3 (Radio-Frequency Electromagnetic Fields) Field strength 10V/m; IEC 61000-4-4 (Fast Transient/Burst) Power Supply Port: 4KV 2.5KHz; IEC 61000-4-5 (Surges) Input Port: 4KV 1.2/50s Combination Wave
WARRANTY	



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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
Product Warranty Period (Puerto Rico)	2-year limited warranty
3-Phase Warranty Statement	<u>Tripp Lite 3-Phase UPS Factory Warranty</u>

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