



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SmartOnline SUT Series 3-Phase 208/120V 220/127V 40kVA 40kW On-Line Double- Conversion UPS, Tower, Extended Run, SNMP Option

MODEL NUMBER: **SUT40K**



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

Description

The SUT40K SmartOnline® SUT Series 3-Phase 208/120V 220/127V 40kVA 40kW 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, light industrial 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 SUT40K 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 SUT40K 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

Highlights

- On-line double-conversion topology, VFI operation
- 1.0 unity power factor supports 40kVA/40kW 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+1

Package Includes

- SUT40K SmartOnline SUT Series 3-Phase 40kVA 40kW On-Line Double-Conversion UPS
- RS-232 (DB9) cable
- Owner's manual

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 40kVA/40kW 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 10.2 min. and full load for 3.7 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

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+1 fault tolerance or increased power capacity up to 160kVA

Automatic Bypass

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

Economy Mode

- 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	037332186713
OUTPUT	
Output Volt Amp Capacity (VA)	40000
Output kVA Capacity (kVA)	40.00
Output Watt Capacity (Watts)	40000
Output kW Capacity (kW)	40.00
Output Capacity Details	Supports parallel connection of up to 4 SUT40K systems for 160kVA max capacity or 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 Output Voltage(s) Supported	120/208V 3-PH Wye; 127/220V 3-PH Wye
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 Receptacles	Hardwire
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
INPUT	
Rated input current (Maximum Load)	135A (120/208V); 127A (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	150A 3 pole 240V breaker
Input Phase	3-Phase
Power Factor (Input)	>0.99 (maximum resistive load)
THDi	<4% (maximum resistive load)
BATTERY	
Full Load Runtime (min.)	3.7 minutes (40kW)
Half Load Runtime (min.)	10.2 minutes (20kW)
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 (7.5A 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	
Installation Form Factors Supported with Included Accessories	Tower
Primary Form Factor	Tower
UPS Power Module Dimensions (hwd, in.)	69.3 x 20.5 x 31.5
UPS Power Module Dimensions (hwd, cm)	176.02 x 52.07 x 80.01
UPS Power Module Weight (lbs.)	886
UPS Power Module Weight (kg)	401.88
Shipping Dimensions (hwd / in.)	76.33 x 30.14 x 61.27
Shipping Dimensions (hwd / cm)	193.88 x 76.56 x 155.63
Shipping Weight (lbs.)	1065.00
Shipping Weight (kg)	483.08
Cooling Method	Fans
UPS Housing Material	Steel
Primary UPS Height (mm)	1,760
Primary UPS Width (mm)	521
Primary UPS Depth (mm)	800
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)	10700
AC Economy Mode BTU / Hr. (Full Load)	2450
Battery Mode BTU / Hr. (Full Load)	7193
AC Mode Efficiency Rating (100% Load)	93%
AC Economy Mode Efficiency Rating (100% Load)	98%
Operating Elevation (ft.)	0 to 10,000 feet
Audible Noise	Less than 70dBA at 1m front side
Operating Elevation (m)	0 to 3000m
COMMUNICATIONS	
Communications Interface	DB9 Serial; Slot for SNMP/Web interface



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
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
Green Energy-Saving Features	High efficiency economy mode operation; Schedulable daily hours of economy mode operation
CERTIFICATIONS	
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	
Product Warranty Period (U.S. & Canada)	1-year limited warranty
Product Warranty Period (International)	2-year limited warranty
Product Warranty Period (Mexico)	1-year limited warranty

© 2018 Tripp Lite. All rights reserved. All product and company names are trademarks or registered trademarks of their respective holders. Use of them does not imply any affiliation with or endorsement by them. Tripp Lite has a policy of continuous improvement. Specifications are subject to change without notice. Tripp Lite uses primary and third-party agencies to test its products for compliance with standards. See a list of Tripp Lite's testing agencies: <https://www.tripplite.com/products/product-certification-agencies>