

## SmartOnline 40kVA Modular 3-Phase UPS System, On-line Double-Conversion UPS for North America

MODEL NUMBER: **SU40K**



### Description

Tripp Lite's SU40K (40kVA) SmartOnline Modular 3-Phase Intelligent, True On-Line UPS System provides 100% system availability with N+1 modular architecture and 1+1 parallel capability. In an N+1 configuration, the SU40K provides two self-contained, redundant 20kVA power modules that can be hot-swapped (with the load powered) if maintenance is required. Connect two SU40K models in parallel (1+1 configuration) to provide fail-safe redundancy (two 40kVA models supporting a 40kVA load) or to increase capacity (two 40kVA models supporting an 80kVA load). The SU40K provides mission-critical equipment with the highest level of power protection available. Large capacity 40,000VA/32,000W UPS continually converts incoming AC power into filtered DC power, and then resynthesizes it back into AC power with a pure sine wave. Perfectly regulated, continuous sine wave output with zero transfer time assures compatibility with all equipment types. The SU40K's high input power factor, advanced IGBT inverter technology and Digital Signal Processor (DSP) technology produce less than 3% input Total Harmonic Distortion (THDi). With low THDi, generators run cooler and last longer, allowing managers to save installation costs by installing a generator with a capacity equal to the equipment load (1:1 ratio). Extremely efficient operation (up to 96%) saves money by lowering electricity consumption. Hardwire input and output connections. The SU40K features 120/208V AC, 3-phase, 4-wire (plus ground), wye input and output. It also features a wide input voltage correction range: 94-150/163-260V AC. Frequency is 50 or 60 Hz (auto-selectable). The SU40K combines internal power and battery components in a single small-footprint tower module. Typical half-load/full-load runtimes are 13 min./5.5 min. Battery runtime can be extended with optional stand-alone hardwired external battery modules [BP480V26B](#) and [BP480V40C](#) with matching battery cabinets, available separately. Additional battery cabinets for extended runtime solutions also available; contact Tripp Lite for more information. A manual bypass breaker and an automatic bypass function ensure 100% availability of connected equipment by safely passing through AC power if the UPS requires maintenance. A built-in RS-232 communication port works with PowerAlert Software, available

### Highlights

- 40,000 VA (40kVA) tower UPS with 2 hot-swappable power modules
- N+1 redundant modular architecture helps assure 100% availability
- 1+1 parallel capability allows for system redundancy or increased capacity
- Low THDi saves installation costs by permitting 1:1 generator sizing
- 3-phase hardwire (120/208VAC) input/output. Wide input voltage correction range (94-150V AC/163-260V AC)
- On-line, double-conversion operation with zero transfer time; IGBT technology; extremely efficient operation (up to 96%)
- Runtime is expandable via external battery cabinet options

### Package Includes

- SU40K UPS System
- [DB9](#) cable
- Parallel cable (for 1+1 operation)
- Instruction manual and startup checklist
- Warranty information



via free download, to provide shutdown commands and reporting on a single server. An accessory slot accepts an optional internal network monitoring card option. Front panel combination LCD/LED display alerts users to a variety of UPS operational modes and conditions. The LCD display includes a real-time event log screen with up to 500 events listed. A dynamic battery management screen optimizes battery function to lengthen service life and allows cold restart of the UPS during a prolonged blackout to utilize its batteries for periodic system access or data retrieval. An Emergency Power Off button turns the UPS output OFF and disables Bypass output. Built-in Emergency Power Off (EPO) dry-contact interface supports remote emergency shutdown in large facilities. A start-up service program is recommended to enhance the reliability of the installation.

## Features

- N+1 configuration: two self-contained, redundant 20kVA power modules can be hot-swapped with the load powered if maintenance is required
- 1+1 configuration: two SU40K models connected in parallel provide fail-safe redundancy or increased capacity
- High input power factor, advanced IGBT inverter technology and Digital Signal Processor (DSP) technology produce low input Total Harmonic Distortion (THDi)
- Low THDi (less than 3%) saves installation costs by allowing 1:1 generator sizing
- Extremely efficient operation (up to 96%) saves money by lowering electricity consumption
- True on-line, double conversion UPS with IGBT technology provides pure sine wave AC output at all times
- Maintains continuous operation through blackouts, voltage fluctuations and surges with zero transfer time
- Removes harmonic distortion, electrical impulses, frequency variations and other hard-to-solve power problems
- 40,000VA/32,000W power capacity with 3-phase, hardwire 120/208VAC input/output connections
- Features a wide input voltage correction range: 94-150/163-260VAC
- Precision +/-1% output voltage regulation
- Internal power and battery components are combined in a single small-footprint tower module. Typical half-load/full-load runtimes are 13 min./5.5 min.
- Battery runtime can be extended with optional stand-alone hardwired external battery modules (Models [BP480V26B](#) and [BP480V40C](#)) with matching battery cabinets, available separately from Tripp Lite
- Additional battery cabinets for extended runtime solutions also available; contact Tripp Lite for more information
- Front panel combination LCD/LED display includes a real-time event log screen with up to 500 events listed
- Dynamic battery management screen optimizes battery function to lengthen service life and allow cold restart of the UPS
- Serial port enables data-saving unattended shutdown when used with Tripp Lite's PowerAlert software,



available via FREE download from [www.tripplite.com/poweralert](http://www.tripplite.com/poweralert)

- Compatible with Tripp Lite UPS management card options [TLNETCARD](#), [WEBCARDLX](#) and [SNMPWEBCARD](#)
- Emergency Power Off button turns UPS output OFF and disables Bypass output
- Built-in Emergency Power Off (EPO) dry-contact interface supports remote emergency shutdown in large facilities
- Start-up service program is recommended to enhance the reliability of the installation

## Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	40000
Output kVA Capacity (kVA)	40
Output Watt Capacity (Watts)	32000
Output kW Capacity (kW)	32
Power Factor	0.8
Crest Factor	3:1
Nominal Output Voltage(s) Supported	120/208V 3-PH Wye
Frequency Compatibility	50 / 60 Hz
Output Voltage Regulation (Line Mode)	+/- 1%
Output Voltage Regulation (Battery Mode)	+/- 1%
Output Receptacles	Hardwire
Output AC Waveform (AC Mode)	Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
INPUT	
Rated input current (Maximum Load)	97A (per phase, on-line)
Nominal Input Voltage(s) Supported	120/208V 3-PH Wye
Nominal Input Voltage Description	3-Phase Wye, 4 wire (L1, L2, L3, N, G)
UPS Input Connection Type	Hardwire
Input Phase	3-Phase
BATTERY	



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Full Load Runtime (min.)	5.5 min. (32kw)
Half Load Runtime (min.)	13 min. (16kw)
Expandable Battery Runtime	Supports extended runtime with optional external battery packs
External Battery Pack Compatibility	<u>BP480V200; BP480V26B; BP480V300; BP480V400; BP480V40C; BP480V500</u>
Expandable Runtime Description	External battery pack wiring is contractor supplied
DC System Voltage (VDC)	+/- 240VDC
Battery Recharge Rate (Included Batteries)	Less than 4 hours from 10% to 90%
Internal UPS Replacement Battery Cartridge	<u>SURBC2030</u> (QTY 4)
Battery Replacement Description	Hot-swappable, replaceable batteries
Expandable Runtime	Yes
<b>VOLTAGE REGULATION</b>	
Voltage Regulation Description	Online, double-conversion power conditioning
Overvoltage Correction	Maintains continuous operation without using battery power during overvoltages to 150/260 (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 94/163 (3-Phase, 4-Wire, wye)
<b>USER INTERFACE, ALERTS &amp; CONTROLS</b>	
Switches	ON button turns UPS's inverter ON. OFF button turns UPS's inverter OFF. LCD Display Control Buttons browse through and select items displayed on LCD screen. Emergency Power Off button turns UPS output OFF and disables Bypass output. Manual Bypass breaker bypasses the UPS's inverter during maintenance
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, bypass input and fault conditions
<b>SURGE / NOISE SUPPRESSION</b>	
EMI / RFI AC Noise Suppression	Yes
AC Suppression Joule Rating	4675
AC Suppression Response Time	Instantaneous
<b>PHYSICAL</b>	
Installation Form Factors Supported with Included Accessories	Tower
Primary Form Factor	Tower
UPS Power Module Dimensions (hwd, in.)	66.9 x 20.5 x 33.7



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UPS Power Module Dimensions (hwd, cm)	169.93 x 52.07 x 85.60
UPS Power Module Weight (lbs.)	1512.5
UPS Power Module Weight (kg)	686.06
UPS Shipping Dimensions (hwd / in.)	76.2 x 28.8 x 45.5
UPS Shipping Dimensions (hwd / cm)	193.55 x 73.15 x 115.57
Shipping Weight (lbs.)	1690.2
Shipping Weight (kg)	767.4
Cooling Method	Fans
UPS Housing Material	Steel
Primary UPS Height (mm)	1699
Primary UPS Width (mm)	521
Primary UPS Depth (mm)	856
Shipping Height (mm)	1935
Shipping Width (mm)	732
Shipping Depth (mm)	1156
<b>ENVIRONMENTAL</b>	
Operating Temperature Range	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
Storage Temperature Range	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius
Relative Humidity	0 to 95%, non-condensing
AC Mode BTU / Hr. (Full Load)	9332
Battery Mode BTU / Hr. (Full Load)	9503
<b>COMMUNICATIONS</b>	
Communications Interface	DB9 Serial; Slot for SNMP/Web interface
Network Management Cards	SNMPWEBCARD; TLNETCARD; WEBCARDLX
PowerAlert Software	For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at <a href="http://www.tripplite.com/poweralert">http://www.tripplite.com/poweralert</a>
Communications Cable	DB9 cabling included
<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 during undervoltages as low as 94 / 163V AC (3-Phase, 4-Wire, wye). Below this point, output is maintained utilizing battery reserves.



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High Voltage Transfer to Battery Power (Setpoint)	Maintains continuous operation during overvoltages as high as 150 / 260V AC (3-Phase, 4-Wire, wye). Above this point, output is maintained utilizing battery reserves.
<b>SPECIAL FEATURES</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
Green Energy-Saving Features	High efficiency economy mode operation; Schedulable daily hours of economy mode operation
<b>CERTIFICATIONS</b>	
UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances)
<b>WARRANTY</b>	
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
Product Warranty Period (Puerto Rico)	2-year limited warranty

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