

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 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

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

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 tripplite.eaton.com/products/power-alert
- 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

OVERVIEW	
UPC Code	037332141361

UPS Type	On-Line
INPUT	
Input Phase	3-Phase
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
OUTPUT	
Output Capacity (VA)	40000
Output Capacity (kVA)	40
Output Capacity (Watts)	32000
Output Capacity (kW)	32
Power Factor	0.8
Crest Factor	3:1
Frequency Compatibility	50 / 60 Hz
Output Voltage Regulation (Line Mode)	+/- 1%
Output Voltage Regulation (Battery Mode)	+/- 1%
Output AC Waveform (AC Mode)	Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
Nominal Output Voltage(s) Supported	120/208V 3-PH Wye
Output Receptacles	Hardwire
Individually Controllable Load Banks	No
BATTERY	
Runtime Full Load (min.)	5.5 min. (32kw)
Runtime Half Load (min.)	13 min. (16kw)
Expandable Runtime	Yes
Expandable Runtime Description	External battery pack wiring is contractor supplied
External Battery Pack Compatibility	BP480V200; BP480V26B; BP480V300; BP480V400; BP480V40C BP480V500
DC System Voltage (VDC)	+/- 240VDC
Battery Recharge Rate (Included Batteries)	Less than 4 hours from 10% to 90%



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UPS Power Module Weight (lbs.)	1512.5
ENVIRONMENTAL	
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 Heat Dissipation (BTU/Hr) @ Full Load	9503
COMMUNICATIONS	
Network Management Cards	SNMPWEBCARD; TLNETCARD ; WEBCARDLX
PowerAlert Software	For local monitoring via the UPS's built-in communication ports, download PowerAlert software at https://tripplite.eaton.com/products/power-alert
Communications Cable	DB9 cabling included
Communications Interface	DB9 Serial; Slot for SNMP/Web interface
LINE / BATTERY TRANSFER	
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.
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.
FEATURES & SPECIFICATIONS	
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
APPLICATIONS	
UPS Applications	Mission Critical Applications
WARRANTY & SUPPORT	
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
3-Phase Warranty Statement	Tripp Lite 3-Phase UPS Factory Warranty



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