

SmartOnline SVX Series 60kVA 400/230V 50/60Hz Modular Scalable 3-Phase On-Line Double- Conversion Small-Frame UPS System, No Battery Modules

MODEL NUMBER: **SVX60KS2P0B**



Description

Tripp Lite's SVX60KS2P0B 60kVA/60kW SmartOnline® Small-Frame UPS includes installed input, bypass and output breakers, a static transfer switch (STS) and 2 included 30kVA SVX30PM power modules. This system supports the addition of 1 additional user-installable SVX30PM power module to accommodate increased capacity to 90kW (or 60kW with N+1). No internal or external batteries are included, but up to three SVXBM internal modules may be added. For additional runtime, you may also connect a variety of external battery cabinets, such as BP480V200, BP480V300, BP480V400, BP480V500 and BP480V370 (all sold separately).

Featuring a modular, scalable design with high-efficiency voltage and frequency independent/VFI operation, Tripp Lite's SVX Series SmartOnline UPS systems are ideal for the protection of a wide variety of critical IT systems. Scalable, modular configuration enables UPS capacity upgrades and hot-swap power supply maintenance without costly downtime. Over 95% efficient in standard on-line mode and over 99% efficient in optional economy mode enables reduced operating and cooling costs. Unity power factor configuration provides equal kVA and kW output ratings for up to 25% more wattage capacity than common 0.8 – 0.9 power factor competing designs. Network-grade sine-wave AC output with 1% output voltage regulation and less than 1.5% output total harmonic distortion. Advanced IGBT inverter with Digital Signal Processor (DSP) technology provides for less than 3% input total harmonic distortion (THDi) to support 1:1 generator sizing. Dual-input hardwire design enables operation from one or two input power sources for enhanced system availability. N+1 fault-tolerance is configurable anytime there is an "extra" SVX30PM 30kW power module installed beyond the minimum required quantity. Automatic and manual bypass options keep connected equipment operational during routine maintenance or critical power module failure.

Features

- Tripp Lite's SVX60KS2P0B 60kVA/60kW SmartOnline UPS offers network-grade power protection in a highly configurable small-frame modular, scalable form factor
- Includes 2 SVX30PM 30kW power modules for 60kVA total capacity; open slot for one additional SVX30PM power module enables scalable capacity configurations up to 90kW
- No internal or external batteries are included, but up to three SVXBM internal modules may be added
- For additional runtime, choose from a variety of external battery options, such as BP480V200, BP480V300, BP480V400, BP480V500 or BP480V370
- Supports 220/380, 230/400 or 240/415V AC, 3-Phase Wye 4-Wire, plus Earth Hardwire input and output

Highlights

- 60kVA/60kW Modular, Scalable, 3-Phase Small-Frame Tower UPS
- Supports 3-Phase 220/380V, 230/400V or 240/415V AC, 50/60Hz, Wye; scalable to 90kVA
- High-efficiency on-line UPS with DSP/IGBT technology and 1% output voltage regulation
- Pre-installed WEBCARDLX with latest version of PADM20 for enhanced remote management
- Does not include internal battery modules, several battery options available; tested to CE for worldwide applications

Package Includes

- SVX60KM2P0B Small-Frame Modular UPS System
- (2) SVX30PM 30kVA Power Modules
- Pre-installed WEBCARDLX network interface
- Owner's manual

wiring

- Tested to CE for worldwide applications
- Pre-installed WEBCARDLX with the latest version of PowerAlert Device Manager firmware (PADM20) provides enhanced remote management capabilities
- PADM20 and PowerAlert Element Manager (PAEM) form a powerful tool for expanding maintenance functions in large installations, including firmware update checks and backup and restoration of device configurations
- Serial port enables unattended shutdown and UPS monitoring ability
- Modular configuration with hot-swappable power modules enables easy and fast maintenance with zero downtime
- Wide input voltage operating range enables full continuous on-line operation during brownouts as low as 120V (Ph-N) and overvoltages up to 276 (Ph-N)
- Narrow output voltage operating range regulates output voltage within 1% of the selected 220/230/240 nominal output voltage in on-line, double-conversion mode
- Over 95% efficient in on-line, double-conversion mode and over 99% efficient in optional economy-mode enables reduced operating and cooling costs
- Less than 3% input Total Harmonic Distortion (THDi) prevents the need to oversize generator systems relative to UPS capacity
- Dual hardwire input design enables operation from one or two input power sources
- Front-panel combination LCD/LED display offers full UPS condition and status reporting, plus additional configuration options

Specifications

OVERVIEW	
UPC Code	037332242693
UPS Type	On-Line
INPUT	
Input Phase	3-Phase
Rated input current (Maximum Load)	60kVA Configuration: 110A; Maximum 90kVA N+1 Medium Chassis Configuration: 165A; 40A maximum inrush current
Nominal Input Voltage(s) Supported	220/380V 3-PH Wye; 230/400V 3-PH Wye; 240/415V 3-PH Wye
Nominal Input Voltage Description	Set of two hardwire input connections enables 3-Phase Wye, 4 wire (3P, N, E) inputs from two separate power sources
UPS Input Connection Type	Hardwire
Input Circuit Breakers	MAIN and ALTERNATE AC inputs are each protected by 400A 3 pole magnetic breakers
Input Frequency	40 to 70Hz (online mode); 50/60Hz Auto-selectable
Power Factor (Input)	Greater than 0.99 (full load)
THDi	Less than 3% (full linear load)
OUTPUT	

DC System Voltage (VDC)	±240VDC
Battery Recharge Rate (Included Batteries)	User selectable charging current of 1A to 8A (2A factory setting); Recharge rate is dependent on number of external battery packs connected and the selected charge current setting
Battery Replacement Description	Hot-swappable, replaceable batteries
VOLTAGE REGULATION	
Voltage Regulation Description	Online, double-conversion power conditioning
Overvoltage Correction	Maintains continuous output in online mode, without using battery power, during overvoltages to 478V (Ph-Ph), reducing output to within 1% of selected 380/220V, 400/230V, 415/240V nominal output voltage
Undervoltage Correction	Maintains continuous output in online mode, without using battery power, during brownout/undervoltage conditions to 305V (Ph-Ph) at full load and to 208V (Ph-Ph) at 70% output load or less, increasing output to within 1% of selected 380/220V, 400/230V, 415/240V nominal output voltage
USER INTERFACE, ALERTS & CONTROLS	
Front Panel LCD Display	145mm front panel LCD display with directional scroll and select buttons offers complete operating status display, plus setting and selection options for all UPS functions
Switches	Front panel buttons include ESC (menu escape), UP/LEFT (menu up / left), DOWN/RIGHT (menu down / right), ENTER (confirm selection), HOME (return to home screen) and POWER (on/off power control); Also includes Manual Bypass switch
Alarm Cancel Operation	Audible alarms can be muted using on-screen prompts
Audible Alarm	Unique audible alarms for POWER ON / POWER OFF (alarm sounds for 2 seconds), BATTERY MODE (alarm sounds every 2 seconds), LOW BATTERY (alarm sounds every 0.5 seconds), UPS ALARM (alarm sounds every 1 second), UPS FAULT (continuous alarm)
LED Indicators	Front panel LED indicators represent INPUT (green), BYPASS (amber), INVERTER (green), BATTERY (red) and ALARM (red)
SURGE / NOISE SUPPRESSION	
EMI / RFI AC Noise Suppression	Yes
AC Suppression Joule Rating	2180
AC Suppression Joule Rating Details	2180 joules (Ph-Ph), 2180 joules (Ph-N), 1560 joules (N-E)
AC Suppression Response Time	Instantaneous
PHYSICAL	
Primary Form Factor	Tower
Cooling Method	Fans
Installation Form Factors Supported with Included Accessories	Tower
Primary UPS Depth (mm)	1,100
Primary UPS Height (mm)	1,475
Primary UPS Width (mm)	600
Shipping Dimensions (hwd / in.)	64.76 x 29.52 x 48.03
Shipping Dimensions (hwd / cm)	164.49 x 74.98 x 122.00

Shipping Weight (lbs.)	856.50
Shipping Weight (kg)	388.50
UPS Housing Material	Steel
UPS Power Module Dimensions (hwd, in.)	58.07 x 23.62 x 43.3
UPS Power Module Weight (kg)	640.47
UPS Power Module Weight (lbs.)	1412
ENVIRONMENTAL	
Operating Temperature Range	32° to 104°F (0° to 40°C); De-rates to 90% capacity at 95°F / 35°C and 80% capacity at 104°F / 40°C
Storage Temperature Range	5° to 140°F (-15° to 60°C)
Relative Humidity	0 to 95%, non-condensing
AC Mode BTU / Hr. (Full Load)	11458
AC Economy Mode BTU / Hr. (Full Load)	890
AC Mode Efficiency Rating (100% Load)	95%
AC Economy Mode Efficiency Rating (100% Load)	99%
Audible Noise	Less than 73 DBA front-side, 1m
Operating Elevation (m)	Up to 1000m (At elevations over 1000m, output de-rates by 1% per 100m)
COMMUNICATIONS	
Network Management Cards	 WEBCARDLX ; MODBUSCARDSV ; RELAYCARDSV
Network Monitoring Port Description	Includes pre-installed Tripp Lite WEBCARDLX network interface
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
SNMP Compatibility	Includes pre-installed WEBCARDLX ; network interface card
Communications Interface	DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface
LINE / BATTERY TRANSFER	
Transfer Time	No transfer time (0 ms.) in online, double-conversion mode; Less than 20 ms. transfer time in economy mode
Low Voltage Transfer to Battery Power (Setpoint)	Maintains continuous operation without using battery power during brownout/undervoltage conditions to 305V (Ph-Ph) Full load or 208V (Ph-Ph) 70% load or less; Below the low transfer voltage 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 478V (Ph-Ph), reducing output within 1% of nominal; Above this point, output is maintained utilizing reserve battery power

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 (included); Zero transfer time; On-Line/Double-Conversion
Green Energy-Saving Features	Greater than 95% efficiency - GREEN UPS; High efficiency economy mode operation; Schedulable daily hours of economy mode operation
IP68 Rated	Yes
IP20 Rated	No
STANDARDS & COMPLIANCE	
Protection Rating	IP68
Product Certifications	IEC/EN 62040; UL Listed
Product Compliance	RoHS; REACH
WARRANTY & SUPPORT	
Product Warranty Period (International)	2-year limited warranty
3-Phase Warranty Statement	Tripp Lite 3-Phase UPS Factory Warranty