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Model #: SU60KX/26B

SmartOnline 60kVA Modular 3-Phase UPS System, On-line Double-Conversion International UPS with Battery



Highlights

- 60,000 VA (60kVA) 3-phase tower UPS w/external battery pack
- N+1 redundant modular architecture helps assure 100% availability
- 1+1 parallel capability allows for system redundancy or increased capacity
- Low THDi reduces installation costs by permitting 1:1 generator sizing
- 3-phase hardwire (220/380V, 230/400V or 240/415V AC, 3-phase, 4-wire + ground, wye) input/output
- IGBT technology and zero transfer time, on-line, double-conversion operation
- Runtime is expandable via additional external battery cabinet options

Description

Tripp Lite's SU60KX (60kVA) 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 N+1 configuration, the SU60KX provides three self-contained, redundant 20kVA power modules that can be hot-swapped (load remaining powered) if maintenance is required. In 1+1 configuration, two SU60KX models connected in parallel can provide fail-safe redundancy (two 60kVA models supporting a 60kVA load) or increased capacity (two 60kVA models supporting a 120kVA load).

The SU60KX provides mission-critical equipment with the highest level of power protection available. Large capacity 60,000VA/48,000W 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. 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 97%) saves money by lowering electricity consumption. Hardwire input and output connections support a variety of permanent or PDU-style power connections. The SU60KX features 220/380V, 230/400V or 240/415V AC, 3-phase, 4-wire + ground, wye input and output. It also features a wide input voltage correction range: 173-300V/276-477V AC. Frequency is 50 or 60 Hz (auto-selectable). SU60KX power modules are housed in a single small-footprint tower compartment. Included battery modules (Models BP480V26B) are housed in a separate stand-alone hardwired external battery compartment (required for UPS operation/backup battery support). Battery runtime can be extended with additional stand-alone hardwired external battery modules. 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 included PowerAlert Software to provide shutdown commands and reporting on a single server. An accessory slot accepts an optional internal SNMP card (Model SNMPWEBCARD) for remote shutdowns, reboots and more. 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 allow 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. A built-in Emergency Power Off (EPO) dry-contact interface supports remote emergency shutdown in large facilities.

Applications

- Ideal for protecting mission-critical equipment in computing, networking or telecommunications environments.

Package Includes

- SU60KX UPS System
- BP480V26B External Battery Pack
- PowerAlert Software
- Instruction manual
- Warranty information

Features

- N+1 configuration: If maintenance is required, three self-contained, redundant 20kVA power modules can be hot-swapped with the load remaining powered
- 1+1 configuration: Two SU60KX can be connected in parallel to provide either 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%) reduces installation costs by allowing 1:1 generator sizing
- Extremely efficient operation (up to 97%) saves money by reducing electricity consumption
- True on-line, double-conversion UPS with IGBT technology provides pure sine wave AC output at all times
- Maintains continuous operation with zero transfer time through blackouts, voltage fluctuations and surges
- Removes harmonic distortion, electrical impulses, frequency variations and other hard-to-solve power problems
- 60,000VA/48,000W power capacity with 3-phase, hardwire input/output connections
- Wide input voltage correction range: 173-300V/276-477V AC
- Included battery modules (Models BP480V26B) are housed in a separate, stand-alone hardwired external battery compartment (required for UPS operation/backup battery support)
- Battery runtime can be extended with additional stand-alone hardwired external battery modules (Models BP480V26B and BP480V40C; order separately)
- 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
- Built-in RS-232 communication port works with included PowerAlert Software to provide shutdown commands and reporting on a single server
- Accessory slot accepts an optional internal SNMP card (Model SNMPWEBCARD) for remote shutdowns, reboots and more
- 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

Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	60000
Output kVA capacity (kVA)	60
Nominal Output Voltage(s) Supported	220/380V; 230/400V; 240/415V; 3-Phase Wye
Frequency compatibility	50/60 Hz (auto-selectable)
Built-in UPS output receptacles	Hardwire
Output VA	60000
Output watts	48000
Output nominal voltage	220/380V, 230/400V or 240/415V AC, 3-phase, 4-wire + ground, wye
Output voltage regulation	Maintains pure sine wave output at all times, regulated within 1% of nominal output voltage, with less than 3% total harmonic distortion (using IGBT Inverter)
Output frequency regulation	Regulates line frequency at 50 or 60 Hz, +/- .05 Hz

Outlet quantity / type	Hardwire
INPUT	
Nominal Input Voltage(s) Supported	220/380 - 230/400 - 240/415V AC 3 phase wye
Recommended Electrical Service	220/380V, 230/400V or 240/415V AC, 3-phase, 4-wire + ground, wye
Maximum Input Amps (A)	79
Maximum Input Amps (A) Details	73A/76A/79A
Input connection type	Hardwire
Voltage compatibility (VAC)	220/380: 230/400: 240/415: 3-Phase
BATTERY	
Expandable battery runtime	Supports extended runtime with additional stand-alone external battery modules: Models BP480V26B and BP480V40C
DC system voltage (VDC)	240
Full load runtime	5.5 minutes (48,000W) with included BP480V26B battery pack
Half load runtime	14 minutes (24,000W) with included BP480V26B battery pack
Battery Pack Accessory (optional)	External battery modules: Models BP480V26B and BP480V40C
Typical battery lifespan	3-6 years, depending on usage
VOLTAGE REGULATION	
Voltage regulation description	On-line, double-conversion process enables UPS to maintain output voltage within +/-1% of nominal voltage at all times
Overvoltage correction	Maintains continuous operation without using battery power during overvoltages to 276-477V AC (3-phase, 4-wire, wye), reducing output within 1% of nominal
Brownout correction	Maintains continuous operation without using battery power during brownout/undervoltage conditions to 173-300V AC (3-phase, 4-wire, wye)
LEDS ALARMS & SWITCHES	
Alarms	Alarms signal a variety of operational conditions: low battery, overload, shutdown, bypass and more
Switches	ON button turns UPS inverter on. OFF button turns UPS inverter off. LCD Display Control Buttons browse through and select items displayed on LCD screen. EPO (Emergency Power Off) button turns UPS output off and disables Bypass output
Front panel LEDs	Selectable LCD Display: Displays Real-Time Event Log with up to 500 events listed. Also displays a wide range of UPS operational and fault/warning conditions including operational mode, alarm/shutdown conditions, input/output voltage/frequency, battery voltage, load percentage and more. 4-LED Display: Displays normal AC input, on battery power, bypass input and fault conditions
SURGE / NOISE SUPPRESSION	
UPS AC suppression joule rating	5950

EMI / RFI AC noise suppression	Yes
AC suppression response time	Instantaneous
PHYSICAL	
Installation form factors supported with included accessories	Tower
Shipping weight (lbs)	613 (UPS) 1224.75 (battery pack)
Shipping weight (kg)	278.3 (UPS) 551.1 (battery pack)
Cooling method	Built-in cooling fans
Unit Dimensions (HWD/in)	46 x 20.5 x 33.7 (UPS) 46 x 20.5 x 33.7 (battery pack)
Unit Dimensions (HWD/cm)	116.8 x 52.1 x 85.6 (UPS) 116.8 x 52.1 x 85.6 (battery pack)
Shipping Dimensions (HWD/in)	55 x 28.5 x 42.5 (UPS) 55.3 x 28.8 x 42.8 (battery pack)
Shipping Dimensions (HWD/cm)	139.7 x 72.4 x 107.9 (UPS) 124.4 x 73.2 x 108.7 (battery pack)
Unit weight (lbs)	1538
Unit weight (kg)	694
Material of construction	Steel
Form factors supported	Tower
ENVIRONMENTAL	
Relative Humidity	
Operating Temperature	+32 to +104 degrees Fahrenheit, 0 to +40 degrees Celsius
Storage Temperature	+5 to +122 degrees Fahrenheit, -15 to +50 degrees Celsius
COMMUNICATIONS	
Network monitoring port	Built-in RS-232 communication port
EPO port	EPO (emergency power off) interface
SNMP compatibility	Built-in accessory slot accommodates internal SNMP card (Model SNMPWEBCARD) and other network accessories
Software and cabling included	PowerAlert UPS monitoring software for all common network and stand-alone operating systems
LINE / BATTERY TRANSFER	
Transfer time from line power to battery mode	Zero transfer time: True on-line UPS continuously converts incoming AC to DC, then back to AC. When line power is interrupted, UPS maintains continuous output from battery reserves with absolutely no disruption in output AC power

Low voltage transfer to battery power	Maintains continuous operation without using battery power during brownout/undervoltage conditions to 173-300V AC (3-phase, 4-wire, wye). Below this point, output is maintained utilizing reserve battery power
High voltage transfer to battery power	Maintains continuous operation without using battery power during overvoltages to 276-477V AC (3-phase, 4-wire, wye), reducing output within 1% of nominal. Above this point, output is maintained utilizing reserve battery power
SPECIAL FEATURES	
Appearance	Steel tower housing; attractive all-black color scheme
Cold Start	Inverter can be cold-started via the control panel to enable temporary AC output during a power failure
CERTIFICATIONS	
Certifications	CE (EN62040-1-1)
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
Optional Coverage	Extended warranties and on-site service contracts available for select opportunities; contact Tripp Lite for details

Related Items

Optional Products

Related Model	Description	Qty.
BPE480VB	External Battery Pack for Select 3-Phase UPS Systems	1
BPE480VC	External Battery Pack for Select 3-Phase UPS Systems	1

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.tripplite.com/en/products/model.cfm?variables.txtModelID=4299.

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