

SmartOnline 80kVA Modular 3-Phase UPS System, On-line Double-Conversion International UPS (expandable to 120kVA)

MODEL NUMBER: **SU80KX2**



Description

Tripp Lite SU80KX2 80kVA SmartOnline Modular 3-Phase Intelligent, True On-Line Double-Conversion UPS System provides 100% system availability with N+1 modular architecture and parallel capability. In N+1 configurations, SU80KX2 provides 4 self-contained, redundant 20kVA power modules that support hot-swappable maintenance as connected equipment remains powered. Two open slots for up to two additional 20kVA power modules offers increased capacity upgrades to 120kVA. In parallel applications, configured and installed by a Tripp Lite authorized technician, up to 4 SU80KX2 models can be connected to provide fail-safe redundancy (two 80kVA models supporting up to 80kVA total load) or increased capacity (two 80kVA models supporting up to 160kVA total load). Large capacity 80,000VA / 64,000W UPS continually converts incoming AC power into filtered DC and resynthesizes output into perfectly regulated continuous sine wave AC output with less than 3% THD. Zero transfer time assures compatibility with all equipment types. High input power factor, advanced IGBT inverter and Digital Signal Processor (DSP) technology produce less than 4% 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). Up to 97% efficiency in optional economy mode reduces operating costs and BTU output. Hardwire input and output connections support a variety of permanent or PDU power connections. Frequency is 50 or 60 Hz (auto-selectable). SU80KX2 power modules are housed in a single small-footprint tower compartment. 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.

Features

- True On-Line Double-Conversion 80kVA / 80,000VA / 64kW / 64,000 watt SmartOnline Modular 3-Phase Intelligent UPS provides 100% system availability

Highlights

- 80kVA / 80,000VA / 64,000W on-line double-conversion 3 phase UPS
- 3 phase 220/380V, 230/400V, 240/415V 4-wire + ground wye input & output
- Scalable design grows as your datacenter grows
- Modular N+1 redundant architecture helps assure 100% availability
- Parallel up to 4 UPS systems for redundancy or increased capacity
- IGBT & DSP technology produce <4% input harmonic distortion (THDi)
- Hot swappable power modules, Expandable runtime

Package Includes

- SU80KX2 UPS System
- Parallel communication cable
- Instruction manual
- Warranty information



- Scalable, modular N+1 configurations support hot-swap replacement of any of the four self-contained 20kVA power modules while connected equipment remains powered
- Two open slots accommodate up to two additional 20kVA power modules for increased capacity up to 120kVA
- Parallel applications enable the connection of 2, 3 or 4 SU80KX2 models in parallel to enable advanced configurations for fail-safe redundancy, increased capacity and combinations of the two (all parallel installations must be performed by a Tripp Lite authorized technician)
- Full-time sine wave output with less than 3% output THD
- High input power factor, advanced IGBT inverter technology and Digital Signal Processor (DSP) technology produce low input THD (THDi)
- Less than 4% input THD (THDi) reduces installation costs by allowing 1:1 generator sizing
- Extremely efficient operation (up to 97%) saves energy and reduces BTU output
- 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
- Wide input voltage correction range: 173-300V / 276-477V AC
- Precision +/-1% output voltage regulation
- 4 available battery modules (BP480V400) are housed in a separate, stand-alone hardwired external battery compartment (Battery modules sold 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
- Serial port enables data-saving unattended shutdown when used with Tripp Lite's PowerAlert software, available via FREE download from www.tripplite.com/poweralert
- Compatible with Tripp Lite UPS management card options TLNETCARD, WEBCARDLX, SNMPWEBCARD, MODBUSCARD and RELAYIOCARD
- 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

OVERVIEW	
UPC Code	037332177865
UPS Type	On-Line



INPUT	
Rated input current (Maximum Load)	103A (220/380), 99A (230/400), 95A (240/415)
Nominal Input Voltage(s) Supported	220/380V 3-PH Wye; 230/400V 3-PH Wye; 240/415V 3-PH Wye
Nominal Input Voltage Description	3-Phase Wye, 4 wire (L1, L2, L3, N, G); Less than 4% input harmonic distortion (THDi)
UPS Input Connection Type	Hardwire
Input Phase	3-Phase
OUTPUT	
Output Volt Amp Capacity (VA)	80000
Output kVA Capacity (kVA)	80
Output Watt Capacity (Watts)	64000
Output kW Capacity (kW)	64
Output Capacity Details	Two open power module slots enable installation of up to two additional 20kVA power modules for increased capacity to 120kVA (authorized technician required)
Power Factor	0.8
Crest Factor	3:1
Nominal Voltage Details	Less than 3% output THD
Frequency Compatibility	50 / 60 Hz
Output Voltage Regulation (Line Mode)	+/- 1%
Output Voltage Regulation (Battery Mode)	+/- 1%
Output AC Waveform (AC Mode)	Pure Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
Nominal Output Voltage(s) Supported	220/380V 3-PH Wye; 230/400V 3-PH Wye; 240/415V 3-PH Wye
Output Receptacles	Hardwire
Individually Controllable Load Banks	No
BATTERY	
Expandable Battery Runtime	Battery set sold separate
Expandable Runtime	Yes
Expandable Runtime Description	External battery pack wiring is contractor supplied
External Battery Pack Compatibility	 BP480V200 ; BP480V300 ; BP480V400 ; BP480V500
DC System Voltage (VDC)	+/- 240VDC



Battery Replacement Description	Hot-swappable, replaceable batteries
VOLTAGE REGULATION	
Voltage Regulation Description	Online, double-conversion power conditioning
Overvoltage Correction	Maintains continuous operation without using battery power during overvoltages to 276-477 (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 173-300 (3-phase, 4-wire, wye)
USER INTERFACE, ALERTS & CONTROLS	
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
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
SURGE / NOISE SUPPRESSION	
EMI / RFI AC Noise Suppression	Yes
AC Suppression Joule Rating	5960
AC Suppression Response Time	Instantaneous
PHYSICAL	
Cooling Method	Fans
Installation Form Factors Supported with Included Accessories	Tower
Primary Form Factor	Tower
Primary UPS Depth (mm)	975
Primary UPS Height (mm)	1,697
Primary UPS Width (mm)	521
Shipping Dimensions (hwd / cm)	193.29 x 72.39 x 122.43
Shipping Dimensions (hwd / in.)	76.10 x 28.50 x 48.20
Shipping Weight (kg)	233.15
Shipping Weight (lbs.)	514.00
UPS Housing Material	Steel
UPS Power Module Dimensions (hwd, cm)	169.67 x 52.07 x 97.54
UPS Power Module Dimensions (hwd, in.)	66.8 x 20.5 x 38.4
UPS Power Module Weight (kg)	318.88



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UPS Power Module Weight (lbs.)	703
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)	14000
AC Economy Mode BTU / Hr. (Full Load)	6754
Battery Mode BTU / Hr. (Full Load)	16451
COMMUNICATIONS	
Network Management Cards	SNMPWEBCARD TLNETCARD WEBCARDLX MODBUSCARD RELAYIOCARD
PowerAlert Software	For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert
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 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 (Setpoint)	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	
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
STANDARDS & COMPLIANCE	
UPS Certifications	CE
WARRANTY	
Product Warranty Period (International)	2-year limited warranty



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Product Warranty Period (Mexico)	2-year limited warranty
Product Warranty Period (Puerto Rico)	2-year limited warranty
3-Phase Warranty Statement	<u>Tripp Lite 3-Phase UPS Factory Warranty</u>

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