

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

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 distiortion
 (THDi)
- Hot swappable power modules,
 Expandable runtime

Package Includes

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

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
- 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

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 Output Voltage(s) Supported	220/380V 3-PH Wye; 230/400V 3-PH Wye; 240/415V 3-PH Wye	
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 Receptacles	Hardwire	
Output AC Waveform (AC Mode)	Pure Sine wave	
Output AC Waveform (Battery Mode)	Pure Sine wave	





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		
BATTERY			
Expandable Battery Runtime	Battery set sold separate		
External Battery Pack Compatibility	BP480V200; BP480V300; BP480V400; BP480V500		
Expandable Runtime Description	External battery pack wiring is contractor supplied		
DC System Voltage (VDC)	+/- 240VDC		
Battery Replacement Description	Hot-swappable, replaceable batteries		
Expandable Runtime	Yes		
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			
Installation Form Factors Supported with Included Accessories	Tower		



LINE / BATTERY TRANSFER		
Communications Cable	DB9 cabling included	
PowerAlert Software	For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert	
Network Management Cards	SNMPWEBCARD; TLNETCARD; WEBCARDLX; MODBUSCARD; RELAYIOCARD	
Communications Interface	DB9 Serial; Slot for SNMP/Web interface	
COMMUNICATIONS		
Battery Mode BTU / Hr. (Full Load)	16451	
AC Economy Mode BTU / Hr. (Full Load)	6754	
AC Mode BTU / Hr. (Full Load)	14000	
Relative Humidity	0 to 95%, non-condensing	
Storage Temperature Range	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius	
Operating Temperature Range	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius	
ENVIRONMENTAL		
Shipping Depth (mm)	1224	
Shipping Width (mm)	724	
Shipping Height (mm)	1933	
Primary UPS Depth (mm)	975	
Primary UPS Width (mm)	521	
Primary UPS Height (mm)	1697	
UPS Housing Material	Steel	
Cooling Method	Fans	
Shipping Weight (kg)	411.5	
Shipping Weight (lbs.)	907.4	
UPS Shipping Dimensions (hwd / cm)	193.29 x 72.39 x 122.43	
UPS Shipping Dimensions (hwd / in.)	76.1 x 28.5 x 48.2	
UPS Power Module Weight (kg)	318.88	
UPS Power Module Weight (lbs.)	703	
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	
Primary Form Factor	Tower	





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
Green Energy-Saving Features	High efficiency economy mode operation; Schedulable daily hours of economy mode operation
CERTIFICATIONS	
UPS Certifications	CE
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

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