



SmartOnline S3MX Series 3-Phase 380/400/415V 80kVA 72kW On-Line Double-Conversion UPS

MODEL NUMBER: \$3M80KX











Highly efficient 94% on-line UPS with compact design protects mission-critical equipment against downtime due to power disturbances.

Features

Battery Backup and VFI Operation Protect Critical LoadsThe SmartOnline® S3M80KX IGBT UPS supports the continuous availability of your most important loads through all power conditions, providing a compact backup power platform that's easy to manage and inexpensive to operate. Sophisticated voltage and frequency independent (VFI) operation and advanced IGBT rectifier technology with DSP control deliver reliable output power quality. Providing up to 80kVA of clean, continuous power, this 3-phase UPS system is perfect for critical applications in IT, communications, corporate, commercial, retail, financial, security, transportation, emergency and light industrial environments.

Best-in-Class Footprint for Easy Integration into Your Network ApplicationThis on-line double-conversion UPS system has a very small footprint of just 0.28 square meters. It requires less valuable space in your facility, and you can install the UPS system in spaces that would previously have required expensive retrofitting.

Efficient Operation and Design Reduces Cost of OwnershipThis IGBT UPS benefits from highly efficient transformer-free double-conversion technology that delivers operating cost savings. It achieves 94% efficiency in double-conversion mode and up to 98% in ECO mode, reducing your power and cooling costs. A low THDi (<3%) improves generator compatibility. A low THDv (2%) and active power factor correction improve output performance. The hardware and firmware platform design reduces the number of unique boards, improving mean time to repair (MTTR) and resulting in reduced downtime. Built-in static and maintenance bypass transfer UPS load to utility power during faults, overloads and maintenance, which also avoids costly system downtime.

External Batteries Supply Reliable Backup with Expandable Runtime OptionsThe S3M80KX uses external scalable battery cabinets, such as BP480V65 and BP480V100 (sold separately), to provide up to three hours of backup support in case of a power failure. The UPS system automatically restarts after a lengthy power outage.

Intuitive LCD Interface Delivers Important Performance Information at a GlanceThe interactive frontpanel LCD interface displays critical operating conditions and diagnostic data, including operating mode, input/output voltage, load, battery voltage, backup runtime and fault conditions. Four LEDs provide information about line, bypass, battery and fault status.

Optional WEBCARDLX Network Interface Offers 24/7 Remote Access for Monitoring and ControlThe optional WEBCARDLX (sold separately) with the latest version of PowerAlert Device Manager firmware (PADM20) provides enhanced remote management capabilities, including customizable dashboard graphs to fit user preferences. The PADM20 upgrade and Tripp Lite's PowerAlert Element Manager (PAEM) software form a powerful tool for expanding maintenance functions in large installations, including firmware update checks and backup and restoration of device configurations.

Parallel Capability Provides Additional Capacity and Redundancy up to 3 UnitsConnect up to three S3M80KX units in parallel using separate/shared battery cabinets for increased capacity.

Highlights

- Best-in-class footprint and power density minimize space requirements for up to 80kVA
- Intuitive LCD interface offers key performance, configuration and diagnostics info
- High efficiency (94% on-line, 98% ECO mode) helps reduce operating costs
- Add optional WEBCARDLX with latest version of PADM20 for enhanced remote management
- Parallel capability provides increased capacity and redundancy up to 3 units

Applications

- Save space in tight data center environments with best-in-class small footprint
- Back up essential equipment in network, telecom, financial and light industrial applications
- Maintain critical data-center, automation-system and production-line operations during all power conditions

Package Includes

- S3M80KX SmartOnline S3MX
 Series 3-Phase 380/400/415V
 80kVA 72kW On-Line Double-Conversion UPS
- P3080KIT parallel cable kit
- RS-232 cable
- Owner's manual



Specifications

OVERVIEW		
UPC Code	037332225412	
UPS Type	On-Line On-Line	
INPUT		
Rated input current (Maximum Load)	122.2A	
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 plus ground (L1, L2, L3, N, G)	
UPS Input Connection Type	Hardwire	
Input Circuit Breakers	6 x 30A fuses/Phase	
Input Phase	3-Phase	
Power Factor (Input)	.99PF (100% load)	
THDi	<3% (100% load)	
ОИТРИТ		
Output Volt Amp Capacity (VA)	80000	
Output kVA Capacity (kVA)	80.00	
Output Watt Capacity (Watts)	72000	
Output kW Capacity (kW)	72.00	
Output Capacity Details	Supports up to 100% load continuously in double conversion mode; Supports 100-110% load for 10 minutes, 110 to 130% load for 1 minute and greater than 130% for 1 second before switching to bypass mode; Inverter mode is automatically restored as load levels are reduced to less than 70%; Configuration options support up to 3 S3M30KX systems wired in parallel for increased capacity or fault-tolerant, redundant operation	
Power Factor	0,9	
Crest Factor	3:1	
Frequency Compatibility	50 / 60 Hz; Supports 50 to 60 Hz and 60 to 50 Hz conversion	
Frequency Compatibility Details	Automatic frequency selection	
Output Voltage Regulation (Line Mode)	+/- 1%	
Output Voltage Regulation (Economy Line Mode)	+/-11V of nominal	
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	Supports extended runtime with optional external battery packs. Please consult the owners manual.
Expandable Runtime	Yes
External Battery Pack Compatibility	BP480V100 ; BP480V100 -NIB; BP480V40 ; BP480V40 -NIB; BP480V40 -NIB; BP480V65">BP480V65">BP480V65">BP480V65">BP480V40
DC System Voltage (VDC)	+/- 240
Battery Recharge Rate (Included Batteries)	9 hours to 90% (Internal batteries)
VOLTAGE REGULATION	
Voltage Regulation Description	Online, double-conversion power conditioning maintains output within 1% of the selected nominal voltage in online mode
	mode
USER INTERFACE, ALERTS & CON	
USER INTERFACE, ALERTS & CONTENT Panel LCD Display	
,	TROLS LCD DISPLAY: offers a variety of graphical, text and numeric information to indicate a wide range of UPS operation and fault / warning conditions, including current operating mode, alarm status, load level, battery charge, input / output voltage & frequency, estimated runtime and more (see user manual for a detailed listing) ON / ENTER BUTTON: turns the UPS on and confirms a selection from the settings menu; OFF / ESC BUTTON: turns off the UPS and returns to the previous item in the settings menu; TEST / UP BUTTON: initiates UPS self-test operation and advances to the next item in the settings menu: MUTE / DOWN BUTTON: silences the audible alarm
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Front Panel LCD Display Switches Audible Alarm	LCD DISPLAY: offers a variety of graphical, text and numeric information to indicate a wide range of UPS operation and fault / warning conditions, including current operating mode, alarm status, load level, battery charge, input / output voltage & frequency, estimated runtime and more (see user manual for a detailed listing) ON / ENTER BUTTON: turns the UPS on and confirms a selection from the settings menu; OFF / ESC BUTTON: turns off the UPS and returns to the previous item in the settings menu; TEST / UP BUTTON: initiates UPS self-test operation and advances to the next item in the settings menu; MUTE / DOWN BUTTON: silences the audible alarm and advances to the previous item in the settings menu; Press TEST/UP & MUTE/DOWN buttons simultaneously for 1 second to enter or exit the settings menu (See user manual for detailed information) Alarms warn users of a variety of operational conditions: BYPASS MODE (beeps every 2 seconds), BATTERY MODE (beeps every 4 seconds), FAULT MODE (beeps continuously), OVERLOAD (beeps twice per second), OTHER WARNINGS (beeps once per second), FAULT (beeps continuously); All alarms can be silenced, except OVERLOAD & OTHER WARNINGS conditions
Front Panel LCD Display Switches Audible Alarm LED Indicators	LCD DISPLAY: offers a variety of graphical, text and numeric information to indicate a wide range of UPS operation and fault / warning conditions, including current operating mode, alarm status, load level, battery charge, input / output voltage & frequency, estimated runtime and more (see user manual for a detailed listing) ON / ENTER BUTTON: turns the UPS on and confirms a selection from the settings menu; OFF / ESC BUTTON: turns off the UPS and returns to the previous item in the settings menu; TEST / UP BUTTON: initiates UPS self-test operation and advances to the next item in the settings menu; MUTE / DOWN BUTTON: silences the audible alarm and advances to the previous item in the settings menu; Press TEST/UP & MUTE/DOWN buttons simultaneously for 1 second to enter or exit the settings menu (See user manual for detailed information) Alarms warn users of a variety of operational conditions: BYPASS MODE (beeps every 2 seconds), BATTERY MODE (beeps every 4 seconds), FAULT MODE (beeps continuously), OVERLOAD (beeps twice per second), OTHER WARNINGS (beeps once per second), FAULT (beeps continuously); All alarms can be silenced, except OVERLOAD & OTHER WARNINGS conditions
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Front Panel LCD Display Switches Audible Alarm LED Indicators PHYSICAL Cooling Method Installation Form Factors Supported	LCD DISPLAY: offers a variety of graphical, text and numeric information to indicate a wide range of UPS operation and fault / warning conditions, including current operating mode, alarm status, load level, battery charge, input / output voltage & frequency, estimated runtime and more (see user manual for a detailed listing) ON / ENTER BUTTON: turns the UPS on and confirms a selection from the settings menu; OFF / ESC BUTTON: turns off the UPS and returns to the previous item in the settings menu; TEST / UP BUTTON: initiates UPS self-test operation and advances to the next item in the settings menu; MUTE / DOWN BUTTON: silences the audible alarm and advances to the previous item in the settings menu; Press TEST/UP & MUTE/DOWN buttons simultaneously for 1 second to enter or exit the settings menu (See user manual for detailed information) Alarms warn users of a variety of operational conditions: BYPASS MODE (beeps every 2 seconds), BATTERY MODE (beeps every 4 seconds), FAULT MODE (beeps continuously), OVERLOAD (beeps twice per second), OTHER WARNINGS (beeps once per second), FAULT (beeps continuously); All alarms can be silenced, except OVERLOAD & OTHER WARNINGS conditions 4 LEDs report BYPASS / LINE / BATTERY / FAULT modes
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Front Panel LCD Display Switches Audible Alarm LED Indicators PHYSICAL Cooling Method Installation Form Factors Supported with Included Accessories Primary Form Factor	LCD DISPLAY: offers a variety of graphical, text and numeric information to indicate a wide range of UPS operation and fault / warning conditions, including current operating mode, alarm status, load level, battery charge, input / output voltage & frequency, estimated runtime and more (see user manual for a detailed listing) ON / ENTER BUTTON: turns the UPS on and confirms a selection from the settings menu; OFF / ESC BUTTON: turns off the UPS and returns to the previous item in the settings menu; TEST / UP BUTTON: initiates UPS self-test operation and advances to the next item in the settings menu; MUTE / DOWN BUTTON: silences the audible alarm and advances to the previous item in the settings menu; Press TEST/UP & MUTE/DOWN buttons simultaneously for 1 second to enter or exit the settings menu (See user manual for detailed information) Alarms warn users of a variety of operational conditions: BYPASS MODE (beeps every 2 seconds), BATTERY MODE (beeps every 4 seconds), FAULT MODE (beeps continuously), OVERLOAD (beeps twice per second), OTHER WARNINGS (beeps once per second), FAULT (beeps continuously); All alarms can be silenced, except OVERLOAD & OTHER WARNINGS conditions 4 LEDs report BYPASS / LINE / BATTERY / FAULT modes Tower Tower
Front Panel LCD Display Switches Audible Alarm LED Indicators PHYSICAL Cooling Method Installation Form Factors Supported with Included Accessories Primary Form Factor Primary UPS Depth (mm)	LCD DISPLAY: offers a variety of graphical, text and numeric information to indicate a wide range of UPS operation and fault / warning conditions, including current operating mode, alarm status, load level, battery charge, input / output voltage & frequency, estimated runtime and more (see user manual for a detailed listing) ON / ENTER BUTTON: turns the UPS on and confirms a selection from the settings menu; OFF / ESC BUTTON: turns off the UPS and returns to the previous item in the settings menu; TEST / UP BUTTON: initiates UPS self-test operation and advances to the next item in the settings menu; MUTE / DOWN BUTTON: silences the audible alarm and advances to the previous item in the settings menu; Press TEST/UP & MUTE/DOWN buttons simultaneously for 1 second to enter or exit the settings menu (See user manual for detailed information) Alarms warn users of a variety of operational conditions: BYPASS MODE (beeps every 2 seconds), BATTERY MODE (beeps every 4 seconds), FAULT MODE (beeps continuously), OVERLOAD (beeps twice per second), OTHER WARNINGS (beeps once per second), FAULT (beeps continuously); All alarms can be silenced, except OVERLOAD & OTHER WARNINGS conditions 4 LEDs report BYPASS / LINE / BATTERY / FAULT modes Fans Tower Tower



Shipping Dimensions (hwd / in.)	47.24 x 18.89 x 35.82
Shipping Weight (kg)	134.72
Shipping Weight (lbs.)	297.00
UPS Housing Material	Steel
UPS Power Module Dimensions (Height x Width x Depth, mm)	1010 x 360x 790
UPS Power Module Dimensions (hwd, cm)	100.99 x 35.99 x 78.99
UPS Power Module Dimensions (hwd, in.)	39.76 x 14.17 x 31.10
UPS Power Module Weight (kg)	112.94
UPS Power Module Weight (lbs.)	249
ENVIRONMENTAL	
Operating Temperature Range	0 to +40C (32-104F)
Storage Temperature Range	0 to +35C (32 to 95F) with battery; -15 to 60C (5 to +140F) without battery
Relative Humidity	5 to 95%, non-condensing
Operating Elevation (ft.)	< 3280ft (Capacity de-rates by 1% for every 328ft over 3280ft)
Audible Noise	<75BA at 1meter
Operating Elevation (m)	< 1000m (Capacity de-rates by 1% for every 100m over 1000m)
COMMUNICATIONS	
COMMUNICATIONS Network Management Cards	WEBCARDLX ; MODBUSCARDSV ; RELAYCARDSV
	Card~WEBCARDLX">WEBCARDLX ; MODBUSCARDSV ; <a class="productLink" href="//www.tripplite.com/Programmable-Relay-I-O-Card-Tripp-I ite-SVTX-SVT-SVX-SV-IJPS-</td></tr><tr><td>Network Management Cards</td><td>Card~WEBCARDLX">WEBCARDLX ; MODBUSCARDSV'>shbsp;RELAYCARDSV
Network Management Cards Network Monitoring Port Description	Card~WEBCARDLX">WEBCARDLX ; MODBUSCARDSV ; RELAYCARDSV Card accessory slot supports network management interface or programmable I/O relay card options
Network Management Cards Network Monitoring Port Description Communications Cable	Card~WEBCARDLX">WEBCARDLX ; MODBUSCARDSV ; RELAYCARDSV Card accessory slot supports network management interface or programmable I/O relay card options DB9/RS-232 cable included
Network Management Cards Network Monitoring Port Description Communications Cable Communications Interface	Card~WEBCARDLX">WEBCARDLX ; MODBUSCARDSV ; RELAYCARDSV Card accessory slot supports network management interface or programmable I/O relay card options DB9/RS-232 cable included
Network Management Cards Network Monitoring Port Description Communications Cable Communications Interface LINE / BATTERY TRANSFER	Card~WEBCARDLX">WEBCARDLX ; MODBUSCARDSV ; RELAYCARDSV Card accessory slot supports network management interface or programmable I/O relay card options DB9/RS-232 cable included DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
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Network Management Cards Network Monitoring Port Description Communications Cable Communications Interface LINE / BATTERY TRANSFER Transfer Time Low Voltage Transfer to Battery Power (Setpoint) High Voltage Transfer to Battery	Card-WEBCARDLX">WEBCARDLX ; RELAYCARDSV=Napp-Lite-SVTX-SVX-SV-UPS-Systems~RELAYCARDSV=Napp-Lite-SVTX-SVX-SVX-SV-UPS-Systems~RELAYCARDSV=Napp-Lite-SVTX-SVX-SV-UPS-Systems~RELAYCARDSV=Napp-Lite-SVTX-SVX-SV-UPS-Systems~RELAYCARDSV=Napp-Lite-SVTX-SVX-SV-UPS-Systems~RELAYCARDSV=Napp-Lite-SVTX-SVX-SVX-SV-UPS-Systems~RELAYCARDSV=Napp-Lite-SVTX-SVX-SVX-SV-UPS-Systems~RELAYCARDSV=Napp-Lite-SVTX-SVX-SVX-SV-UPS-Systems~RELAYCARDSV=Napp-Lite-SVTX-SVX-SVX-SV-UPS-Systems~Relaycard-Napp-Lite-SVTX-SVX-SVX-SVX-SV-UPS-Systems~Relaycard-Napp-Lite-SvTX-SvX-SVX-SVX-SVX-SVX-SVX-SV-UPS-Systems~Relaycard-Napp-Lite-SvTX-SvX-SvX-SvX-SvX-SvX-SvX-SvX-SvX-SvX-Sv
Network Management Cards Network Monitoring Port Description Communications Cable Communications Interface LINE / BATTERY TRANSFER Transfer Time Low Voltage Transfer to Battery Power (Setpoint) High Voltage Transfer to Battery Power (Setpoint)	Card-WEBCARDLX">WEBCARDLX ; RELAYCARDSV Card accessory slot supports network management interface or programmable I/O relay card options DB9/RS-232 cable included DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface Zero transfer time Online to Battery, Inverter to Bypass 0ms (Synchronous), and Inverter to ECO mode < 10ms. 120V(Ph-N), 208V (Ph-Ph) @ 50% load / 176V (Ph-N), 305V (Ph-Ph) @ 100% load.



Tripp Lite
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Telephone: 773.869.1234
www.tripplite.com

High Availability UPS Features	Automatic inverter bypass; Manual bypass switch; Auto Probe Monitoring (requires WEBCARDLX); Zero transfer time; On-Line/Double-Conversion	
Green Energy-Saving Features	High efficiency economy mode operation	
STANDARDS & COMPLIANCE		
UPS Certifications	CE	
Certification Details	IEC/EN 62040-1:2008+A1 (Safety); IEC/EN 62040-2:2006 (Category C3)	
WARRANTY		
Product Warranty Period (U.S. & Canada)	2-year limited 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	
3-Phase Warranty Statement	Tripp Lite 3-Phase UPS Factory Warranty	

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