

## SmartOnline S3MX Series 3-Phase 380/400/415V 100kVA 90kW On-Line Double-Conversion UPS

MODEL NUMBER: **S3M100KX**



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 Loads** The SmartOnline® S3M100KX 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 100kVA 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 Application** This on-line double-conversion UPS system has a very small footprint of just 0.54 square meters. It requires less valuable space in your data center, and you can install the UPS system in spaces that would previously have required expensive retrofitting.

**Efficient Operation and Design Reduces Cost of Ownership** This 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 Options** The S3M100KX 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. Add the optional TEMPC100200 thermostat kit to enable temperature-compensated charging for optimized battery lifespan. The UPS system automatically restarts after a lengthy power outage.

**Intuitive Color Touchscreen Display Delivers Important Performance Information at a Glance** The large (25.4 cm/10 inches) front-panel color interface enables comprehensive local monitoring and control capability. It displays critical operating conditions and diagnostic data, such as phase load levels, available runtime, alarm status, battery charge, and voltage and frequency values. Six LEDs indicate bypass, on-line, inverter, battery and alarm/fault modes.

### Highlights

- Best-in-class footprint and power density minimize space requirements for up to 100kVA
- Large (25.4 cm/10 in.) color touchscreen display enables user-friendly local management
- High efficiency (94% on-line, 98% ECO mode) helps reduce operating costs
- Add optional WEBCARDLX with latest version of PADM20 for IP-based Auto Probe feature
- Parallel capability provides increased capacity and redundancy up to 2 units

### Applications

- Fit 100kVA UPS in best-in-class footprint to save space for revenue-generating equipment
- Back up critical IT equipment and data in network, telecom, financial and light industrial applications
- Maintain data-center operations during all power conditions

### Package Includes

- S3M100KX SmartOnline S3MX Series 3-Phase 380/400/415V 100kVA 90kW On-Line Double-Conversion UPS
- P100200KIT parallel cable kit
- RS-232 cable
- Owner's manual



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#### Optional WEBCARDLX Network Interface Offers 24/7 Remote Access for Monitoring and Control

The 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 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. Auto Probe allows a UPS with switched loads to automatically reboot devices if a network communication failure is detected. This preserves uptime and minimizes the time and expense associated with on-site support.

#### Parallel Capability Provides Additional Capacity and Redundancy up to 2 Units

Connect two S3M100KX units in parallel using separate/shared battery cabinets for increased capacity.

## Specifications

| OVERVIEW                              |  |
|---------------------------------------|--|
| UPC Code                              | 037332225429   |
| UPS Type                              | On-Line  |
| INPUT                                 |  |
| Input Phase                           | 3-Phase  |
| Rated input current (Maximum Load)    | 165A   |
| 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                | 200A (3 pole)  |
| Power Factor (Input)                  | .99PF (100% load)  |
| THDi                                  | <3% (100% load)  |
| OUTPUT                                |  |
| Output Capacity (VA)                  | 100000   |
| Output Capacity (kVA)                 | 100  |
| Output Capacity (Watts)               | 90000  |
| Output Capacity (kW)                  | 90.00  |
| Output Capacity Details               | Supports up to 100% load continuously in double conversion mode; Supports up to 110% load for 60 minutes, up to 125% load for 10 minutes, up to 150% load for 1min and greater than 150% for 1 milliseconds before switching to bypass mode; Inverter mode is automatically restored as load levels are reduced to 70% or less; Configuration options support up to 2 S3M100KX 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%   |



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|---|--|
| Output Voltage Regulation (Economy Line Mode)                 | +/- 15V 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                          | Yes  |
| <b>BATTERY</b>  |  |
| Expandable Runtime  | Yes  |
| External Battery Pack Compatibility                           | BP480V100; BP480V100-NIB; BP480V40; BP480V40-NIB; BP480V65   |
| DC System Voltage (VDC)                                       | +/- 240  |
| Battery Recharge Rate (Included Batteries)                    | 9 hours to 90% (Internal batteries)  |
| <b>VOLTAGE REGULATION</b>                                     |  |
| Voltage Regulation Description                                | Online, double-conversion power conditioning maintains output within 1% of the selected nominal voltage in online mode   |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b>                  |  |
| Front Panel LCD Display                                       | Large (25.4cm/10 in) color touchscreen display enables comprehensive local monitoring, diagnostics and control through an advanced, intuitive and user-friendly interface. The display has six sub-screens: HOME, CONTROL, MEASUREMENTS, SETUP, INFORMATION and EVENT. Each of these screens is intuitive and comprehensive providing specifics from input and output phase loads, voltages, frequencies, battery charge status, system operating mode (online, standby, ECO, Battery, fault) status, specific measurement in every operating mode, current and event history of up to 500 events to enable diagnostics and system fault troubleshooting. It is powerful local management tool at your fingertips. |
| Audible Alarm   | Alarms warn users of a variety of operational conditions: There are audible alarms for all modes of operation, as well as fault modes. Please refer to the owner's manual for a full list of audible alarms. Here are a few: Bypass Mode (beeps every 1 min), Battery Mode (beeps every 2 seconds), Low Battery Mode (beeps every 0.5 seconds), UPS Fault Mode (beeps continuously), and UPS alarm (beeps every 1 seconds).  |
| LED Indicators  | 6 LEDs report BYPASS / LINE / INV/ BATTERY / FAULT/ALARM modes   |
| <b>PHYSICAL</b>   |  |
| Primary Form Factor   | Tower  |
| Cooling Method  | Fans   |
| Installation Form Factors Supported with Included Accessories | Tower  |
| Primary UPS Depth (mm)  | 945  |
| Primary UPS Height (mm)                                       | 1,015  |
| Primary UPS Width (mm)  | 567  |
| Shipping Dimensions (hwd / in.)                               | 46.50 x 27.80 x 44.30  |



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**TRIPP-LITE**  
by **EAT•N**

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| Shipping Dimensions (hwd / cm)                              | 118.11 x 70.61 x 112.52  |
| Shipping Weight (lbs.)                                      | 492.73   |
| Shipping Weight (kg)  | 223.50   |
| UPS Housing Material  | Steel  |
| UPS Power Module Dimensions (Height x Width x Depth, mm)    | 1015 x 567 x 945   |
| UPS Power Module Dimensions (hwd, cm)                       | 101.50 x 56.69 x 94.49   |
| UPS Power Module Dimensions (hwd, in.)                      | 39.96 x 22.32 x 37.20  |
| UPS Power Module Weight (kg)                                | 197.00   |
| UPS Power Module Weight (lbs.)                              | 434.3  |
| Unit Weight (lbs.)  | 434.3  |
| Unit Weight (kg)  | 197.00   |
| <b>ENVIRONMENTAL</b>  |  |
| Operating Temperature Range                                 | 32° to 104°F (0° to 40°C)  |
| Storage Temperature Range                                   | 5° to 140°F (-15° to 60°C) without battery   |
| Relative Humidity   | 5 to 95%, non-condensing   |
| Operating Elevation   | 0-3280 ft. (0-1000 m)  |
| Audible Noise   | <70dBA at 1meter   |
| <b>COMMUNICATIONS</b>                                       |  |
| Network Management Cards                                    | WEBCARDLX; &nbsp;<a class="productLink" href="//tripplite.eaton.com/Network-Card-Eaton-Tripp-Lite-Series-UPS-Systems-WEBCARDLXE">WEBCARDLXE</a>&nbsp;; MODBUSCARDSV; RELAYCARDSV |
| Network Monitoring Port Description                         | Card accessory slot supports network management interface WEBCARDLX card or a programmable I/O relay RELAYCARDSV card options  |
| Communications Cable  | DB9/RS-232 cable included  |
| Communications Interface                                    | DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface   |
| <b>LINE / BATTERY TRANSFER</b>                              |  |
| Transfer Time   | Zero transfer time Online to Battery, Inverter to Bypass 0ms (Synchronous), and Inverter to ECO mode < 20ms.   |
| Low Voltage Transfer to Battery Power (Setpoint)            | 120V(Ph-N), 208V (Ph-Ph) @ 50% load / 176V (Ph-N), 305V (Ph-Ph) @ 100% load.   |
| High Voltage Transfer to Battery Power (Setpoint)           | 276 (Ph-N), 478V (Ph-Ph) @ 50% or 100% load.   |
| <b>FEATURES &amp; SPECIFICATIONS</b>                        |  |
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported   |
| High Availability UPS Features                              | Automatic inverter bypass; Manual bypass switch; Auto Probe Monitoring (requires WEBCARDLXE); Zero transfer time; On-Line/Double-Conversion                                      |



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| Green Energy-Saving Features            | High efficiency economy mode operation                         |
| Grounding Details                       | Yes  |
| IP68 Rated                              | No   |
| IP20 Rated                              | No   |
| <b>APPLICATIONS</b>                     |  |
| UPS Applications                        | Mission Critical Applications                                  |
| <b>STANDARDS &amp; COMPLIANCE</b>       |  |
| Product Certifications                  | IEC/EN 62040   |
| Product Compliance                      | RoHS; CE (Europe); UKCA  |
| <b>WARRANTY &amp; SUPPORT</b>           |  |
| 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              | <u><a href="#">Tripp Lite 3-Phase UPS Factory Warranty</a></u> |

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