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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

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
- Optional WEBCARDLX network management card allows cost-effective remote management
- Parallel capability provides increased capacity

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
- RS-232 cable
- Owner's manual



bypass, on-line, inverter, battery and alarm/fault modes.

Network Management Card Offers Remote Monitoring and Control

The optional Java-free WEBCARDLX network management card (sold separately) enables remote management through embedded HTML5 web, SSH/telnet and SNMP interfaces, as well as integration with a wide range of network management systems and DCIM platforms. A Remote Emergency Power Off (REPO) port allows shutdown from a safe distance during emergencies.

Parallel Capability Provides Additional Capacity

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

2-Year Warranty Provides Peace of Mind

The S3M100KX is backed by a 2-year warranty, ensuring reliability and performance.

Specifications

OVERVIEW	
UPC Code	037332225429
OUTPUT	
Output Volt Amp Capacity (VA)	100000
Output kVA Capacity (kVA)	100.00
Output Watt Capacity (Watts)	90000
Output kW 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
Nominal Output Voltage(s) Supported	220/380V 3-PH Wye; 230/400V 3-PH Wye; 240/415V 3-PH Wye
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)	+/-15V of nominal
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)	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)
Input Phase	3-Phase
Power Factor (Input)	.99PF (100% load)
THDi	<3% (100% load)
BATTERY	
Expandable Battery Runtime	Supports extended runtime with optional external battery packs. Please consult the owners manual.
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)
Expandable Runtime	Yes
VOLTAGE REGULATION	
Voltage Regulation Description	Online, double-conversion power conditioning maintains output within 1% of the selected nominal voltage in online mode
USER INTERFACE, ALERTS & CONTROLS	
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
PHYSICAL	
Installation Form Factors Supported with Included Accessories	Tower
Primary Form Factor	Tower
UPS Power Module Dimensions (hwd, in.)	39.96 x 22.32 x 37.20



UPS Power Module Dimensions (hwd, cm)	101.50 x 56.69 x 94.49
UPS Power Module Weight (lbs.)	434.3
UPS Power Module Weight (kg)	197.00
Shipping Dimensions (hwd / in.)	46.50 x 27.80 x 44.30
Shipping Dimensions (hwd / cm)	118.11 x 70.61 x 112.52
Shipping Weight (lbs.)	492.73
Shipping Weight (kg)	223.50
Cooling Method	Fans
UPS Housing Material	Steel
UPS Power Module Dimensions (Height x Width x Depth, mm)	1015 x 567 x 945
Primary UPS Height (mm)	1,015
Primary UPS Width (mm)	567
Primary UPS Depth (mm)	945
ENVIRONMENTAL	
Operating Temperature Range	0C to +40C (32F to 104F)
Storage Temperature Range	-15C to 60C (5F 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	<70dBA at 1meter
Operating Elevation (m)	< 1000m (Capacity de-rates by 1% for every 100m over 1000m)
COMMUNICATIONS	
Communications Interface	DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
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
LINE / BATTERY TRANSFER	
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.
SPECIAL FEATURES	
Grounding Lug	Yes



Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Automatic inverter bypass; Manual bypass switch
Green Energy-Saving Features	High efficiency economy mode operation
CERTIFICATIONS	
UPS Certifications	CE
UPS Certification Details	IEC 62040-1:2008+A1 (Safety); EN 62040-2:2006 (Category C3)
WARRANTY	
Product Warranty Period (International)	2-year limited warranty

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