TRIPP-LITE

SmartOnline S3MX Series 3-Phase 380/400/415V 40kVA 36kW On-Line Double-Conversion UPS

MODEL NUMBER: S3M40KX



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® S3M40KX 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 40kVA 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 doubleconversion UPS system has a very small footprint of just 0.24 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.

Supplies Reliable Battery Backup with Expandable Runtime OptionsInternal 10Ah batteries provide 14 minutes of support at half load and five minutes at full load with zero transfer time. Adding external battery cabinets, such as BP480V10 (sold separately), provides extended runtime. The S3M40KX 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.

Highlights

- Best-in-class footprint and power density minimize space requirements for up to 40kVA
- 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 server-room operations during all power conditions, including short blackouts

Package Includes

- S3M40KX SmartOnline S3MX Series 3-Phase 380/400/415V 40kVA 36kW On-Line Double-Conversion UPS
- P3080KIT 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 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 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 S3M40KX units in parallel using separate/shared battery cabinets for increased capacity.

Specifications

OVERVIEW		
UPC Code	037332225399	
UPS Type	On-Line	
INPUT		
Input Phase	3-Phase	
Rated input current (Maximum Load)	61A	
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	80A (3 pole)	
Power Factor (Input)	.99PF (100% load)	
THDi	<3% (100% load)	
OUTPUT		
Output Capacity (VA)	40000	
Output Capacity (kVA)	40	
Output Capacity (Watts)	36000	
Output Capacity (kW)	36.00	
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%	



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Primary UPS Depth (mm)	815	
Primary UPS Height (mm)	1,000	
Primary UPS Width (mm)	300	
Shipping Dimensions (hwd / in.)	47.44 x 16.90 x 36.22	
Shipping Dimensions (hwd / cm)	120.50 x 42.93 x 92.00	
Shipping Weight (lbs.)	709.00	
Shipping Weight (kg)	321.60	
UPS Housing Material	Steel	
UPS Power Module Dimensions (Height x Width x Depth, mm)	1000 x 300 x 815	
UPS Power Module Dimensions (hwd, cm)	100.00 x 30.00 x 81.48	
UPS Power Module Dimensions (hwd, in.)	39.37 x 11.81 x 32.08	
UPS Power Module Weight (kg)	315.70	
UPS Power Module Weight (lbs.)	696	
ENVIRONMENTAL		
Operating Temperature Range	32° to 104°F (0° to 40°C)	
Storage Temperature Range	32° to 95°F (0° to 35°C) with battery; 5° to 140°F (-15° to 60°C) 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	<60dBA at 1meter	
Operating Elevation (m)	< 1000m (Capacity de-rates by 1% for every 100m over 1000m)	
COMMUNICATIONS		
Network Management Cards	WEBCARDLX; <a class="productLink" href="//tripplite.eaton.com/Network-Card-Eaton-Tripp-Lite-Series-
UPS-Systems~WEBCARDLXE">WEBCARDLXE ; <a <br="" class="productLink">href="//tripplite.eaton.com/Programmable-RS-485-Management-Accessory-Card-for-Select-3-Phase-UPS- Systems~MODBUSCARDSV">MODBUSCARDSV ; RELAYCARDSV	
Network Monitoring Port Description	Card accessory slot supports network management interface or programmable I/O relay card options	
Communications Cable	DB9/RS-232 cable included	
Communications Interface	DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface	
LINE / BATTERY TRANSFER		
Transfer Time	Zero transfer time Online to Battery, Inverter to Bypass 0ms (Synchronous), and Inverter to ECO mode < 10ms.	
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)	276V (Ph-N), 478V (Ph-Ph) @ 50% or 100% load.	



FEATURES & SPECIFICATIONS		
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	
Green Energy-Saving Features	High efficiency economy mode operation	
Grounding Details	Yes	
IP68 Rated	No	
IP20 Rated	No	
APPLICATIONS		
UPS Applications	Mission Critical Applications	
STANDARDS & COMPLIANCE		
Product Certifications	IEC/EN 62040	
Product Compliance	RoHS; CE (Europe); UKCA	
WARRANTY & SUPPORT		
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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