## **3-PHASE UPS SYSTEMS**



## Powering and Connecting Your World



## SmartOnline<sup>®</sup> S3M 3-Phase UPS Series

Clean, continuous power in a compact UPS designed for critical applications.

### 10 to 100 kVA/kW, 208/220V Ph-Ph

- Best-in-class footprint and power density
- ENERGY STAR<sup>®</sup> 2.0 certified efficiency



- Unity output power
- 480V and 600V solutions with external transformers
- Large 5" (12.7 cm) color touchscreen display
- Parallel for capacity or redundancy up to 6 units
- Backfeed protection standard
- Dual AC inputs standard
- Powerful and smart battery charger
- Wide operating input voltage (-20%, +25%) and frequency range
- VFI operation with DSP control
- Comprehensive service plan
- 2-year warranty for all 10-100 kVA UPS models

Clean, continuous, compact power for critical applications • Clean, continuous, compact power

## TRIPP-LITE BEST-IN-CLASS FOOTPRINT

### Smallest 208V 3-Phase UPS Systems in the Market

Tripp Lite's SmartOnline S3M UPS series supports the continuous availability of critical loads in a remarkably compact footprint, without compromising runtime, reliability or functionality. Providing up to 600 kVA/kW (6 x 100kW parallel UPS) of clean, highly-efficient power in an easy-to-manage platform, it keeps operational costs to a minimum. SmartOnline S3M is perfect for small data centers, colocation data centers and edge computing, as well as other critical applications in IT, telecommunications, corporate, commercial, retail, financial, security, transportation, healthcare and manufacturing environments.

### Key Features and Benefits

#### BEST-IN-CLASS FOOTPRINT AND POWER DENSITY

- Smallest footprint in the 208V 3-phase UPS market helps save space for revenue-generating equipment
- Innovative design allows for market-leading features in a compact housing

#### EFFICIENT OPERATION

- ENERGY STAR 2.0-certified 98% ECO efficiency and up to 94% on-line efficiency reduce utility and cooling costs
- Low input distortion (THDi <3%) enables 1:1 generator matching

#### HIGH PERFORMANCE

- Parallel for capacity or redundancy up to 6 units
- Dual AC input capability to connect two independent sources for additional power redundancy and system reliability
- Very low output distortion (THDv ≤ 2%) and active power factor correction improve output performance
- Unity output power factor (1.0) for supporting more equipment
- Smart battery charger (20-80 amp) for riding through successive power failures
- Voltage and frequency independent (VFI), advanced IGBT rectifier

#### DYNAMIC MANAGEMENT TOOLS

- Large 5 inch (12.7 cm) color touchscreen display supports full-featured local management in several language options
- Optional WEBCARDLX (SNMP) card enables network management and integration with network management systems and DCIM. Relay (I/O) card optional
- Integrated MODBUS RTU ports R2-232, RS-485 and USB
- On-site (EPO) or remote (REPO) Emergency Power Off capabilities let users monitor and control both the UPS and connected PDUs
- Ports compatible with Tripp Lite environmental accessories monitor temperature, humidity, access and more

#### **REPAIR & WARRANTY**

- Up to 75% less time to repair due to innovative design
- 2-year warranty for all S3M10K to 100K UPS models, including UPS models with internal batteries. Optional extended warranties available
- Tripp Lite Care<sup>™</sup> dedicated 3-Phase UPS service support team



## TRIPP-LITE REDUCED COST OF OWNERSHIP

### SmartOnline S3M Series Uses Less Space in Your Data Center

12-610 ante infit al

### and Your Budget

ENERGY STAR 2.0-certified high on-line efficiency reduces operational costs, while its compact design preserves more space for revenue-generating equipment than standard 3-phase UPS systems.

TRIPPLITE



- SmartOnline S3M is ENERGY STAR 2.0-certified and 98% ECO efficient, with up to 94% on-line efficiency to reduce utility and cooling costs
- Up to 75% reduction in mean time to repair (MTTR) over standard mono-block 208V 3-phase UPS systems = less time and money spent on repairs
- Low input distortion (THDi <3%) enables 1:1 generator matching and eliminates costly over-sizing requirements
- Small footprint requires less valuable data center space and allows the UPS to be installed in spaces that previously would have required expensive retrofitting
- Two S3M series UPS units connected in parallel may be supported with only one battery cabinet to minimize cost and footprint
- Powerful management tools and comprehensive Tripp Lite Care<sup>™</sup> service plans reduce scheduled and unscheduled downtime

## TRIPP-LITE AT THE EDGE OF YOUR NETWORK

Tripp Lite's SmartOnline S3M UPS series provides the reliable uptime, compact size, efficient power and convenient maintenance that critical loads and edge computing installations need to thrive.

#### S3M UPS systems are ideal in:



COLOCATION OR SMALL DATA CENTERS: Small data centers housing 10-200 racks



IN-HOUSE OR REMOTE EDGE COMPUTING:

On-premise and remote edge computing spaces for telecommunications, retail, manufacturing, transportation, corporate, healthcare and financial/educational institutions



#### CONTAINERIZED EDGE COMPUTING:

Precast concrete or metal remote micro data centers for utilities, government, telecom and oil/gas exploration

### 480V and 600V Adaptable Configurations

1st example: S3M20K-20K4T

Includes 20 kVA UPS + 20 kVA

480V input transformer.

Also available: kit models with

UPS + 480V input and output

transformers for 30 kVA to 100 kVA models.

Tripp Lite SmartOnline S3M UPS units are conveniently available in UPS + transformer kit models to accommodate 480V applications, such as medical equipment and manufacturing, and 600V for Canadian market applications.

#### 16 Transformer + UPS kit models available.

- Kit models with 480V input transformers + UPS from 20 kVA to 100 kVA
- Kit models with 480V input/output transformers + UPS from 30 kVA to 100 kVA
- Kit models with
   600V input transformers
   + UPS from 50 kVA
   to 100 kVA
- Transformers are UL/CSA certified, ISTA-3B tested, and include overheat and current protection
- All transformers may also be purchased separately



2nd example: S3M100K-100K4T Includes 100 kVA UPS + 100 kVA 480V input transformer.



3rd example: S3M100K-100K6T Includes 100 kVA UPS + 100 kVA 600V input transformer. Also available for 50 kVA to 80 kVA models.

## TRIPP-LITE MANAGEMENT TOOLS

### Powerful Local Management is at Your Fingertips

The advanced, user-friendly display provides local management from 7 touchscreens:

**HOME:** View the operating status and setting mode of the UPS.

**STATUS:** View phase voltage, current, PF and frequency of the main, bypass, output and battery status.

ALARM: Check the alarm status and history, and control the UPS alarm buzzer.

**SETTING:** Select the UPS operational mode and the display language.

MAINT: Download history records, and set battery self-tests and self-screen correction.

**COMMON:** Navigate the most common menu features from one screen.

ABOUT: View the LCD, REC and INV versions.

## Powerful Network Management is Only a Click Away

**WEBCARDLX** (SNMP) network management card enables remote monitoring and control through several interfaces: HTML5 web via HTTP(S), menu/CLI via SSH/Telnet, and SNMP for integration with software management platforms such as DCIM. Using WEBCARDLX in your UPS combined with Tripp Lite's network-enabled switched PDUs, you can manage power throughout your facility and receive automated alerts to identify problems before they cause downtime.

**WEBCARDLX** also supports a family of sensors for remotely monitoring environmental conditions. You can link up to three sensors together, connecting them to a single port on the WEBCARDLX. Tripp Lite offers free PowerAlert<sup>®</sup> Network Management System software. Learn more and download at tripplite.com/products/power-alert.





Network Manageme	ent Card				
WEBCARDLX	Network Management Card for Compatible Tripp Lite UPS Systems. Provides HTML5 Web, SSH/Telnet and SNMP Interfaces.				
Environmental Sensors (Require WEBCARDLX)					

E2 modules & SRSWITCH ENVIROSENSE2 (E2) Environmental Sensor Module with Temperature (E2MT) and Digital Outputs (E2MTDO) and Humidity and Digital Inputs (E2MTHDI). Water Leak Detection Sensor (E2SLD) and Magnetic Door Switch Kit (SRSWITCH) available (both require E2MTHDI).



With the **WEBCARDLX** network management card installed, you can monitor and control UPS systems across multiple sites from any location The unified Tripp Lite LX platform also includes PDUs, allowing you to manage power throughout your facilities.

# TRIPP-LITE SPECIFICATIONS

Model	S3M10K1B	S3M10K2B	S3M10K3B	S3M10K-NIB	S3M15K2B	S3M15K3B	S3M15K-NIB	S3M20K3B	S3M20K-NIB	
OVERVIEW										
Capacity	10 kVA/10 kW	10 kVA/10 kW	10 kVA/10 kW	10 kVA/10 kW	15 kVA/15 kW	15 kVA/15 kW	15 kVA/15 kW	20 kVA/20 kW	20 kVA/20 kW	
Тороlogy	True On-Line Double Conversion; Voltage and Frequency Independent (VFI)									
INPUT	1				, ,					
Voltage and Phase			208/	220V (Ph-Ph); 120	/127V (Ph-N): 3-P	hase. Neutral and	d Ground			
Voltage Range		-20%, +25% (P					5–260V or 132–27	5V) at <50% Load	4	
Frequency (Range)					Hz, Selectable (4				-	
Power Factor					≥ 0.99 (Linear Lo					
Dual AC Input					Yes, standard					
Protection					Backfeed Conta					
Harmonic Distortion					2% THDi (100%					
OUTPUT			-		2/011101(100/0	Load)				
Voltage and Phase			200/	220V (Ph-Ph); 120	/127\/ (Ph NI): 2 P	hana Nautral an	d Ground			
AC Voltage Regulation		+1% of Nor					); ±10% of Nomir			
Power Factor			inal (Double-Co	Silversion wode,		or battery would	9, ±10% 01 NOMI			
			Cala	ctable ±1%, ±2%	1.0	2/ of loos of /Dofe	(h. 100/)			
Frequency			Sele			· · · · · · · · · · · · · · · · · · ·	III. ±10%)			
Frequency Regulation					onverter Mode or		L			
Overload (AC Mode)		L	_oad ≤ 110%=1	nour; Load ≤ 125			Load >150%=Byp	Dass		
Crest Factor			. 40/	TUD (1000) 11	3:1 Maximum		L B			
Harmonic Distortion			≤ 1%	THD (100% Linea			iear Load)			
Waveform					Pure Sine Way					
Transfer Time					-> Battery and Inv					
Parallel Capability			Paral	lel Up to 4 Units f	or Increased Cap	acity or N+N Re	dundancy			
BYPASS	1									
Bypass Voltage Range	Upper Limit: +10%, +15%, +20% or +25% (Default: +20%); Lower Limit: -10%, -20%, -30% or -40% (Default: -30%)									
Bypass Frequency Range					±10% (Adjustab	ole)				
EFFICIENCY										
On-line Mode					Up to 94%					
ECO Mode					Up to 98%					
BATTERY AND CHARGER	1	-				-				
Battery Type					e-Free Non-Spilla		GEL			
DC Acceptance Voltage				1	±120V DC (Nom	inal)				
Battery Configuration	Internal Only	Internal Only	Internal Only	External Only*	Internal Only	Internal Only	External Only*	Internal Only	External Only*	
Internal Battery Quantity	20 x 9 Ah	40 x 9 Ah	60 x 9 Ah	None*	40 x 9 Ah	60 x 9 Ah	None*	60 x 9 Ah	None*	
Runtime (100% Load)	4 min.	9 min.	20 min.	27 – 107 min.*	6 min.	13 min.	15 – 90 min.*	7 min.	10 – 64 min.*	
Runtime (50% Load)	10 min.	22 min.	45 min.	60 – 255 min.*	13 min.	27 min.	35 – 220 min.*	16 min.	27 – 156 min.*	
External Battery Cabinets*							and BP240V09K			
		1		1	1	1	40V40L, BP240V	I	1	
Recharge Time to 90%	≤ 8 hr.	≤ 8hr.	≤ 8 hr.	Varies with	≤ 8 hr.	≤ 8 hr.	Varies with	≤ 8 hr.	Varies with	
	1 00 1 (1 05 1)	4 004 (0 74)	4 004 (4 05 4)	battery pack	1 001 (0 7 1)	4 004 (4 05 4)	battery pack	1 004 (1054)	battery pack	
Charging Current (Default)	1 – 20A (1.35A)	1 – 20A (2.7A)	1 – 20A (4.05A)	1 – 20A (2.7A)	1 – 20A (2.7A)	1 – 20A (4.05A)	1 – 20A (2.7A)	1 – 20A (4.05A)	1 – 20A (2.7A)	
ENVIRONMENT	1									
Operating Temperature					25° C for optimal					
Storage Temperature	0 – 35° C (UPS with batteries); -15° – 60° C (UPS without batteries)									
Operating Humidity					95% (Non-Cond					
Operating Altitude				00 m (Derate out					1	
Audible Noise at 1 m	< 58 dBA	< 58 dBA	< 58 dBA	< 58 dBA	< 58 dBA	< 58 dBA	< 58 dBA	<60 dBA	< 60 dBA	
Heat Dissipation (100% Load)		2457	BTU/h			3686 BTU/h		4915	BTU/h	
MANAGEMENT										
Control Panel			Large 12.7 cm	(5-inch) Multi-lan	guage Touchscre	en Display with S	Supplemental LEE	Ds		
Communications	SNMP Network Management Card (WEBCARDLX) (optional), integrated MODBUS RTU via 3-ports, RS-232 (DB9), USB, RS-485 x 2 (RJ45), second slot for optional Relay I/O card									
STANDARDS										
Safety			UL1778	3:2014 (5th Editio	n); CAN/CSA-C22	2.2 No. 107.3-14 (	(3rd Edition)			
EMC/EMI	FCC Part 15B Class A									
Additional	ENERGY STAR 2.0; RETIE; IP20 Ingress Protection Rating; RoHS; ISTA-3B vibration, shock and tip tested									
PHYSICAL								·		
Unit Dimensions (H x W x D)	34.17 x 9.84 x 35.43 in. (868 x 250 x 900 mm)									
	200 11 /427 1	110 lb /107 log	E22 IL /227 L.				181 lb./82 kg	527 lb./239 kg	183 lb./83 kg	
Unit Weight	300 lb./136 kg	41ZID./10/K0	322 ID./23/ KG	179 lb./81 kg	414 lb./188 kg	JZJ ID./ZJO KU	1011D./02 KG	JZ/ ID./ZJ/ KU		

\* Consult the S3M UPS model product page on the Tripp Lite website to access the "Runtime" configuration tool. Bat without internal batteries (-NIB models) are also available.

## Scalable Battery Cabinets Complete Your Installation

- Scalable battery cabinets support backup runtime from 15 minutes to nearly 6 hours
- 15 models available, accommodating 10-100 kVA UPS systems





Note: 10-20 kVA units come with or without internal batteries. 25-100 kVA units require external battery cabinets.

BP240V09 10/15/20 kVA (80 x 9Ah) UPS

BP240V100L (40 x 100Ah)

80/100 kVA UPS

## TRIPP-LITE SPECIFICATIONS

Model	S3M25K	S3M30K	S3M50K	S3M60K	S3M80K	S3M100K					
OVERVIEW											
Capacity	25 kVA/25 kW	30 kVA/30 kW	50 kVA/50 kW	60 kVA/60 kW	80 kVA/80 kW	100 kVA/100 kW					
Тороlоду		True On-	Line Double Conversion; Volta	age and Frequency Indep	endent (VFI)						
INPUT											
Voltage and Phase		208	3/220V (Ph-Ph); 120/127V (Ph-N	N); 3-Phase, Neutral and C	iround						
Voltage Range	-209	6, +25% (Ph-Ph 166–260)	/ or 176–275V) at 100% Load;	-40%, +25% (Ph-Ph 125–2	60V or 132–275V) at <50%	Load					
Frequency (Range)			50/60 Hz, Selecta	able (40 – 70 Hz)							
Power Factor	≥ 0.99 (100% Linear Load); ≥ 0.98 (50% Linear Load)										
Dual AC Input			Yes, sta	Indard							
Protection			Backfeed (	Contactor							
Harmonic Distortion		< 3% THDi (100% Load)									
OUTPUT			( 0/0 11101 (	10070 2000)							
Voltage and Phase		208	/220V (Ph-Ph); 120/127V (Ph-N	N): 3-Phase Neutral and (	Fround						
AC Voltage Regulation	+1		Conversion Mode, Converter I			ude)					
Power Factor			1	0		(46)					
Frequency		Sel	ectable ±1%, ±2%, ±4%, ±5%	+10% of Input (Default:	+10%)						
Frequency Regulation			±0.1 Hz (Converter Mo	· · · · ·	1070						
Overload (AC Mode)		Load < 110%=	1 hour; Load ≤ 125%=10 min.;		ad >150%=Bypass						
Crest Factor		2000 2 110/0-	3:1 May		ia > 15070-Dypass						
Harmonic Distortion		~ ??	5:1 Max 5:2 (100% Linear Load); ≤ 5		r l oad)						
Waveform		527	Pure Sin								
Transfer Time			0 ms (Line → Battery a								
Parallel Capability		Parallal	up to 5N+1 Units for Increased		Padundana (						
BYPASS		Farallel	up to 5N+1 Units for increased	a Capacity or up to 6 for r	redundancy						
	11-		+20% or +25% (Default: +20%	(). Lauran Lineite 109/ 209	( 200/ an 400/ (Dafaulty 1	200/1					
Bypass Voltage Range	υρ	per Limit: +10%, +15%,			o, -30% or -40% (Default: -3	50 %)					
Bypass Frequency Range EFFICIENCY			±10% (Ad	ijustable)							
				049/							
On-line Mode ECO Mode			Up to Up to								
			Up to	98%							
BATTERY AND CHARGER			12)/ 14.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		1						
Battery Type			12V Maintenance-Free Non		L						
DC Acceptance Voltage	E travel O d	E transloat	±120V DC		E translout	E travel O d					
Battery Configuration*	External Only	External Only	External Only	External Only	External Only	External Only					
Internal Battery Quantity	None	None	None	None	None	None					
Runtime (100% Load)	N/A	N/A	N/A	N/A	N/A	N/A					
Runtime (50% Load)	N/A	N/A	N/A	N/A BP240V65L,	N/A	N/A					
Battery Cabinets*	BP240V40, BP240V40, BP240V40, BP240V65,         BP240V40L, BP240V65,           tery Cabinets*         BP240V65L, BP240V100         BP240V65L, BP240V100,           BP240V100         BP240V100         BP240V100,				BP240V65L, BP240V100L						
Recharge Time to 90%			Please consult the Bat	BP240V100L							
Charging Current (Default)	1 – 20A (0.15C)	2 – 20A (0.15C)	4 – 40A (0.15C)	4 – 40A (0.15C)	6 – 60A (0.15C)	8 – 80A (0.15C)					
	1 201 (0.130)	2 201 (0.130)	1 10/1 (0.130)	1 10/1 (0.100)	0 00/1 (0.130)	0 004 (0.100)					
Operating Temperature			0 – 4	0° C							
Storage Temperature											
Operating Humidity	-15° – 60° C 0 – 95% (Non-Condensing)										
Operating Altitude			000 m (Derate output power l		100 m)						
Audible Noise at 1 m	< 65 dBA	< 68 dBA	< 72 dBA	< 72 dBA	< 74 dBA	< 75.6 dBA					
				15154 BTU/h	19932 BTU/h						
Heat Dissipation (100% Load) MANAGEMENT	6399 BTU/h	7679 BTU/h	12628 BTU/h	13134 DTU/II	17732 DTU/II	24915 BTU/h					
Control Panel		Larga 12.7	n (5 inch) Multi Inneurose Tour	sheeroon Display with Sur-	plomontal I EDa						
Communications	Large 12.7 cm (5-inch) Multi-language Touchscreen Display with Supplemental LEDs Network Management Card SNMP ( <b>WEBCARDLX</b> ) optional, 3 integrated MODBUS RTU ports (R2-232, USB, RS-485) and optional Relay I/O card for the second COMS slot										
STANDARDS											
Safety		LJI 173	78:2014 (5th Edition): CAN/CS	A-C22.2 No. 107 3-14 (3rd	d Edition)						
EMC/EMI	UL1778:2014 (5th Edition); CAN/CSA-C22.2 No. 107.3-14 (3rd Edition) FCC Part 15B Class A										
Additional	ENERGY STAR 2.0; RETIE; IP20 Ingress Protection Rating; RoHS; ISTA-3B vibration, shock and tip tested										
PHYSICAL	I	2. 121(01 01Al( 2.0, IC	, ii zo ingress i rotection (a		and the rested						
Unit Dimensions (H x W x D)	39.37 x 11.81 x 31.50 ir	. (1000 x 300 x 800 mm)	47.24 x 17.4 x 33.46 in. (	1200 x 442 x 850 mm	62 99 x 23 62 x 33 //6 in	. (1600 x 600 x 850 mm)					
Unit Weight	209 lb./95 kg	212 lb./96 kg	353 lb./160 kg	364 lb./165 kg	624 lb./283 kg	708 lb./321 kg					
onic Wolgin	207 10.773 Kg	21210.//0 kg	000 ID./ 100 Kg	55 F 15./ 105 Kg	02 1 10.7200 Kg	700 10.702 F Kg					

\* Consult the S3M10-100K UPS model product page on the Tripp Lite website to access the "Runtime" configuration tool. Battery cabinets without internal batteries (-NIB models) are also available.

### **Tripp Lite UPS Web Resources**

Browse UPS systems and accessories to find the optimal solutions for your application at Tripp Lite's 3-Phase UPS Solutions page.

For your convenience, Tripp Lite also provides design files for use in engineering and architectural projects that include Tripp Lite products.

Visit Tripp Lite's 3-Phase UPS solutions resource page: tripplite.com/pages/3-phase-ups-solutions



# **TRIPP·LITE** 3-PHASE UPS SERVICE PROGRAM

## Tripp Lite Care Service and Support

Service is the most critical component of 3-phase UPS ownership. When you invest in a large UPS, you may need it to operate reliably for 10 years or more. Tripp Lite Care<sup>™</sup> 3-phase UPS services are designed to protect your UPS over its entire lifecycle, from commissioning to preventive maintenance and eventual replacement. They keep your UPS in peak condition so it is always ready to protect you from downtime.

#### Warranty

Tripp Lite's 3-phase UPS factory warranty is two years. Optional extended warranties of up to three years beyond the standard factory warranty are available. External batteries include a one-year warranty in all regions.



#### Commissioning

Commissioning builds a solid foundation for improved reliability, higher efficiency, reduced costs, enhanced safety, fewer repairs, quicker service and longer UPS lifespan. Commissioning helps you verify and document the proper installation and startup of your UPS system at the installation site. Commissioning also registers your UPS, initiates its service record and establishes a working relationship between your organization and the Tripp Lite service team, which is essential for a successful 3-phase UPS deployment. Lastly, commissioning activates an enhanced 24/7/365 on-site UPS warranty, which covers parts, travel and labor.

#### Annual Service Agreements with Preventive Maintenance

Annual service agreements include extended 24/7/365 on-site warranties and on-site preventive maintenance visits. Regular preventive maintenance significantly reduces failure rates by identifying potential threats early and correcting problems before they cause downtime. UPS systems with regular preventive maintenance are much less likely to experience a failure than UPS systems without it. Component failures can still happen, but on-site warranties minimize the cost and disruption of unavoidable repairs.

#### Non-Warranty Services

Tripp Lite provides non-warranty services when the UPS system is outside the warranty or service agreement period, or when a required service or repair is not covered under the terms of the current warranty or service agreement. Tripp Lite quotes non-warranty services on a case-by-case, time-and-materials basis, and cost depends on the UPS model and specific service requested. Available non-warranty services include rapid-response on-site repair, battery installation and battery service/replacement.

#### **Planned Replacement Services**

Although Tripp Lite products are built to provide long service life, there comes a point for every UPS system when it makes more sense to modernize than to keep an older system in service. Tripp Lite's planned replacement services provide a free assessment of your current UPS, balancing the cost of replacement against the cost of maintenance and risk of downtime. Once you decide to modernize, Tripp Lite helps you make the transition efficient and seamless, minimizing disruption to your critical operations.

Note: Service availability varies with location.

#### **Contact Tripp Lite for more information:**

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