TRIPP·LITE

Powering and Connecting Your World

SmartOnline® 3-Phase UPS

Continuous power for critical applications.

10 – 210 kVA, 380/400/415V Ph-Ph
20 – 140 kVA, 208/220V Ph-Ph

- Efficient and reliable operation
- Parallel capability up to 400 kVA
- Powerful network management
- Battery cabinets for scalable runtimes
- Comprehensive service program

SmartOnline 3-phase UPS systems protect mission-critical equipment in high-availability environments worldwide, including data centres, edge computing installations, colocation sites, small/medium businesses, banking and insurance institutions, light industrial facilities, hospitals, clinics, universities and government agencies.

Tripp Lite SmartOnline 3-Phase UPS Systems:
Protecting Mission-Critical Environments Worldwide

Since 1922, Tripp Lite has built a reputation for outstanding reliability and exceptional service. From desktop to critical infrastructure, Tripp Lite products and solutions power and connect the computers, networking equipment and electronic devices that form the foundation of our digital world.

With capacities ranging from 10 kVA to 210 kVA (400 kVA in parallel), Tripp Lite's field-proven 3-phase UPS systems are used today in mission-critical production environments worldwide, including data centres, edge computing installations, colocation sites, small/medium businesses, banking and insurance institutions, light industrial facilities, hospitals, clinics, universities and government agencies. Featuring voltage- and frequency-independent (VFI) double-conversion operation, they provide the highest level of power protection.

Review this brochure for an introduction to Tripp Lite 3-phase UPS systems and the benefits they can provide to your organisation. When you are ready to learn more, Tripp Lite's dedicated 3-phase application engineers will help you configure the best solution for your requirements, providing actionable recommendations and bills of material to ensure your solution provides the availability and affordability you need to meet your goals.

SVTX
≤ 90 kVA
in Parallel

10/20K	30K

SUTX
≤ 160 kVA
in Parallel

20/40K

SVX
≤ 210 kVA
(30 kVA Modules)

30/60/90K	30/60/90K 120/150/180/210K

S3MX
≤ 400 kVA
in Parallel

30/40K	60/80K	100/120K	160/200K

— 1 m

400V UPS Families – See page 4 for more information.

Scalable Runtime with External Battery Cabinets

Tripp Lite provides a variety of external battery cabinet options, allowing you to customise and expand battery backup runtime.

Scalable Capacity to Keep Pace with Your Business

As loads increase, you can expand UPS capacity with hot-swappable power modules (SV/SVX series) or parallel capability (SVTX, SUT/SUTX and S3MX series).

Optimised Footprints for Edge Computing

A variety of models with internal batteries offer the compact footprint required for IoT, edge computing, back office and other space-constrained applications, including containerised micro data centres.

Powerful and Convenient Remote Management

WEBCARDLX enables remote management through HTML5 and SNMP interfaces, as well as support for integration with DCIM platforms.

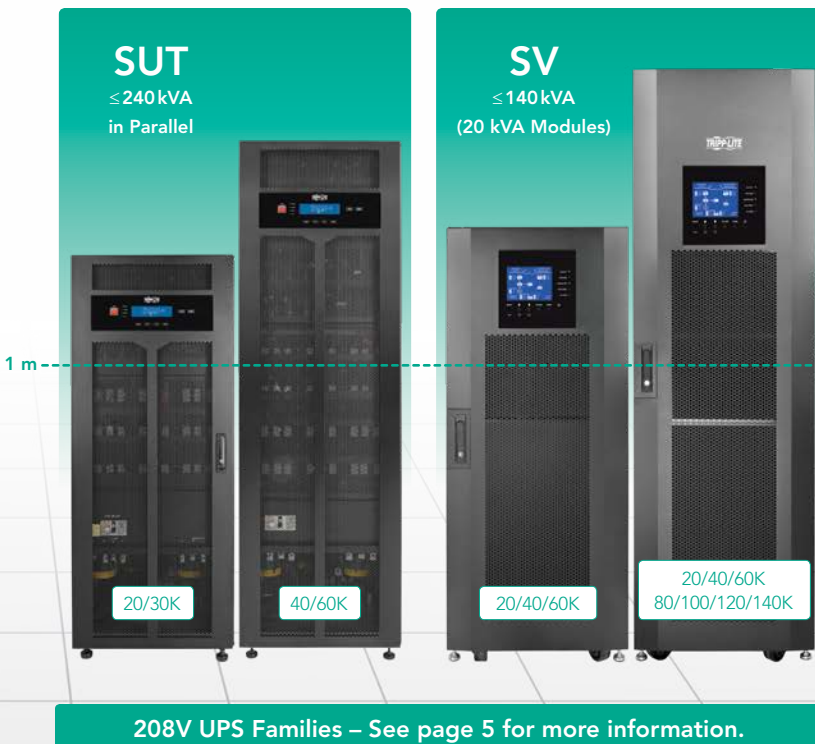## Customisable Redundancy for High Availability

Select the best configuration for your application's availability requirements, including N+1 and N+N redundancy.

Comprehensive Service for Reliability and Uptime

Tripp Lite's 3-phase UPS service program ensures your UPS is ready to protect you from downtime over its entire lifecycle, from initial startup to annual service agreements and preventive maintenance.

Low Cost of Ownership to Maximise Profitability

High efficiency in double-conversion mode and ECO mode reduces your organisation's operational expenditures for power and cooling, while low THDi and active input power factor correction eliminate costly over-sizing requirements for generators and other equipment. Small UPS footprints leave more space for revenue-generating equipment and permit installation in smaller spaces without the expense and delay of retrofitting.

SUT
≤240 kVA
in Parallel

SV
≤140 kVA
(20 kVA Modules)

1 m

20/30K

40/60K

20/40/60K

20/40/60K
80/100/120/140K

208V UPS Families – See page 5 for more information.

400V	SVTX Series	SUTX Series	S3MX Series	SVX Series
Capacity	10/20/30 kVA (Parallel to 90 kVA)	20/40 kVA (Parallel to 160 kVA)	30–200 kVA (Parallel to 400 kVA)	30–210 kVA (30 kVA modules)
Voltage	380/400/415V (Ph-Ph), 220/230/240V (Ph-N)			
Distinct Series Benefits	Cost-effective power protection for small applications that require a small footprint	Advanced, high-efficiency protection for installations that may require N+N redundancy	Best-value, high-performance power protection with best-in-class footprint and unique battery-sharing capability	Best value for growing businesses; scalable via 30 kVA modules with N+1; high efficiency; low mean time to repair (MTTR)
Applications and Industries				
Typical Applications	Small business installations, server rooms and network closets	Small and medium installations, dedicated IT space and mixed-use buildings with IT load ≤ 80 kW	Small and medium data centres, light industrial settings and large corporate networks with IT load ≤400 kW or 50 server racks at 8 kW/rack	Small and medium data centres, light industrial settings and large corporate networks with IT load ≤210 kW or 26 server racks at 8 kW/rack
Industries	Data centres, edge computing, colocation, business, light manufacturing, finance, healthcare, education, government			
Key Features				
Format	Small tower	Compact tower	Best-in-class footprint	Rack-based (30U or 42U)
UPS Footprint	10/20K: 0,20 m² (2,2 ft.²) 30K: 0,24 m² (2,6 ft.²)	20/40K: 0,41 m² (4,4 ft.²)	30/40K: 0,24 m² (2,6 ft.²) 60/80K: 0,28 m² (3,0 ft.²) 100/120K: 0,54 m² (5,8 ft.²) 160/200K: 0,56 m² (6,0 ft.²)	30–210K: 0,66 m² (7,1 ft.²)
UPS Height	10/20K: 0,86 m (33,9 in.) 30K: 1,04 m (40,7 in.)	20/40K: 1,40 m (55,1 in.)	30/40K: 1,00 m (39,4 in.) 60/80K: 1,01 m (39,8 in.) 100/120K: 1,02 m (40,0 in.) 160/200K: 1,45 m (57,3 in.)	30–90K: 1,48 m (58,1 in.) 30–210K: 2,01 m (79,1 in.)
Local/Remote Management	LCD + optional network card	LCD + optional network card	LCD or extra-large LCD + optional network card	Large LCD + included network card
Output Power Factor	0,9 power factor	Unity (1,0) power factor	0,9 power factor	Unity (1,0) power factor
Efficiency	≤92% (≤99% ECO)	≤95% (≤99% ECO)	≤94% (≤98% ECO)	≤95% (≤99% ECO)
Parallel Capability	3x capacity for 20/30K only	4x capacity or redundancy	3x capacity and redundancy for 30-80K; 2x capacity and redundancy for 100-200K	Internal/modular N+1
Battery Options	Internal and/or external batteries	Internal and/or external batteries	Internal (30–40K) or external (30–200K) batteries; 2 units can share 1 battery cabinet	Internal or external batteries
Series Details	SVTX: Pages 6–7	SUTX: Pages 8–9	S3MX: Pages 10–12	SVX: Pages 13–15

208V	SUT Series	SV Series
Capacity	20 / 30 / 40 / 60 kVA (Parallel to 240 kVA)	20 – 140 kVA (20 kVA modules)
Voltage	208/220V (Ph-Ph), 120/127V (Ph-N)	
Distinct Series Benefits	Advanced protection for installations that may require N+N redundancy	Best value for growing businesses; scalable via 20 kVA modules with N+1; low mean time to repair (MTTR)
Applications and Industries		
Typical Applications	Small and medium installations, dedicated IT space and mixed-use buildings with IT load ≤ 80 kW	Small and medium data centres, light industrial settings and large corporate networks with IT load ≤126 kW or 15 server racks at 8 kW/rack
Industries	Data centres, edge computing, colocation, business, light manufacturing, finance, healthcare, education, government	
Key Features		
Format	Compact tower	Rack-based (30U or 42U)
UPS Footprint	20–60K: 0,42 m² (4,5 ft.²)	20–140K: 0,66 m² (7,1 ft.²)
UPS Height	20/30K: 1,38 m (54,3 in.) 40/60K: 1,76 m (69,3 in.)	20–60K: 1,48 m (58,1 in.) 20–140K: 2,01 m (79,1 in.)
Local/Remote Management	LCD + optional network card	Large LCD + included network card
Output Power Factor	Unity (1,0) power factor	0,9 power factor
Efficiency	≤93% (≤98% ECO)	≤92% (≤99% ECO)
Parallel Capability	4x capacity or redundancy	Internal/modular N+1
Battery and Runtime Options	Internal and/or external batteries	Internal or external batteries
Series Details	**SUT: Pages 16–17**	**SV: Pages 18–20**

Remote Management

Tripp Lite 3-phase UPS systems support powerful and convenient remote management capabilities through **WEBCARDLX**, which is included with SV and SVX models and optional for other models. For more information, see page 21.

Scalable Runtime

Tripp Lite provides a variety of external battery cabinets that allow you to customise and expand your 3-phase UPS system's battery backup runtime to support a wide range of applications. For more information, see pages 22–23.

3-Phase UPS Service

Tripp Lite's 3-phase UPS service program maintains the reliability and efficiency of your UPS over its entire lifecycle, ensuring it is always ready to protect you from downtime. For more information, see page 24.

SmartOnline SVTX Series

10 / 20 / 30 kVA, 380/400/415V Ph-Ph

- Best-in-class footprint
- VFI operation and IGBT inverter
- High output power factor (0,9)
- Optional network management card
- Built-in static and maintenance bypass
- Parallel capability up to 90 kVA
- ≤4 min. at full load with internal batteries
- ≤92 min. at full load with external batteries

Cost-effective power protection for small applications requiring a small footprint

Key Features and Benefits

BEST-IN-CLASS FOOTPRINT

- Compact footprint saves valuable space for revenue-generating equipment and allows installation in smaller spaces without the expense and delay of retrofitting

SCALABLE, FAULT-TOLERANT ARCHITECTURE

- Parallel capability provides up to 90 kVA
- Space-saving internal batteries enable short-runtime applications with a small footprint
- Optional external battery cabinets outlast extended outages to enable long-runtime applications
- Built-in static and maintenance bypass transfer load to utility power during faults, overloads and service

POWERFUL UPS MANAGEMENT

- User-friendly LCD control panel permits full-featured local management through a user-friendly interface
- Optional **WEBCARDLX** network card enables remote management through embedded HTML5 web, SSH/telnet and SNMP interfaces, as well as integration with Network Management Systems and DCIM platforms (See page 21 for more information.)
- Standard Emergency Power Off (EPO) allows immediate shutdown during emergencies

HIGH-PERFORMANCE OPERATION

- Voltage- and frequency-independent (VFI) operation and transformerless IGBT rectifier technology provide reliable output power quality with pure sine wave
- Low THDi (<6%) improves generator compatibility and eliminates costly over-sizing requirements
- Low THDv (<2%) and active power factor correction improve output performance
- High output power factor (0,9) allows the UPS to support more equipment without overloading
- High charging capacity allows the UPS to ride through multiple power failures in rapid succession

COMPREHENSIVE SERVICE PROGRAM

- Tripp Lite Care ensures your UPS is ready to protect you from downtime over its entire lifecycle, from initial startup to annual service agreements and preventive maintenance
- Regular service improves UPS reliability, longevity and cost control (See page 24 for more information.)

Typical Applications: Small business installations, server rooms and network closets

SmartOnline SVTX Series Technical Specifications

OVERVIEW			
Model	**SVT10KX**	**SVT20KX**	**SVT30KX**
Capacity	10 kVA / 9 kW	20 kVA / 18 kW	30 kVA / 27 kW
Topology	Voltage- and Frequency-Independent (VFI) True On-Line Double Conversion		
INPUT			
Voltage	380/400/415V (Ph-Ph); 220/230/240V (Ph-N)		
Voltage Range	305 – 478V (100% Load)		
Phase	3-Phase, Neutral and Ground		
Operating Frequency	50/60 Hz (Selectable)		
Frequency Range	46 – 54 Hz (50 Hz System); 56 – 64 Hz (60 Hz System)		
Power Factor	> 0,99%		
THDi	< 6%		
Inverter Bridge	IGBT Technology		
OUTPUT			
Voltage	380/400/415V (Ph-Ph); 220/230/240V (Ph-N)		
AC Voltage Regulation	± 1%		
Frequency (Range)	50/60 Hz, Selectable (± 0,1 Hz)		
Efficiency (ECO / Line Mode, 100% Load)	99% / 90%	97% / 91%	97% / 92%
Overload (AC and Battery Mode)	100% – 110% (10 min.); 111% – 130% (1 min.); > 130% (1 sec.)		
Crest Factor	3:1		
Harmonic Distortion	< 2% (Linear Load); < 5% (Non-Linear Load)		
Transfer Time	0 ms (Line ‹→› Battery); 0 ms (Inverter ‹→› Bypass)		
Output Waveform	Pure Sine Wave		
BYPASS			
Static and Maintenance Bypass	Standard		
Transfer Time	< 1 ms		
Default Bypass Voltage Tolerance	190V – 457V (Ph-Ph, Adjustable)		
Overload	< 130% (Continuous); > 130% (1 min.)		
BATTERY			
Battery Type	Maintenance-Free Sealed Valve-Regulated Lead-Acid (VRLA)		
Battery Capacity	12V 9 Ah		
Quantity	20	20 x 2	20 x 3
Battery Charging Capacity	2A	4A	
Float Voltage	273V DC ± 1%		
Battery Storage Time	6 months (Without Recharge, 25° C)		
BATTERY RUNTIME (50% / 100% Load)			
Internal Batteries Only	11 / 4 min.	11 / 4 min.	11 / 4 min.
+1 **BP240V135** External Battery Cabinet	68 / 29 min.	38 / 16 min.	32 / 13 min.
+2 **BP240V135** External Battery Cabinets	135 / 59 min.	68 / 30 min.	53 / 22 min.
+3 **BP240V135** External Battery Cabinets	206 / 92 min.	101 / 45 min.	76 / 31 min.
ENVIRONMENT			
Operating Temperature / Humidity	0 – 40° C (For Optimal Battery Life < 25° C) / 0 – 95% (Non-Condensing)		
Operating Altitude	< 1000 m (1% Derating per 100 m Above 1000 m)		
Audible Noise	< 65 dBA @ 1 m		
MANAGEMENT			
Control Panel	62 mm Multifunction LCD		
RS-232 Serial (DB9)	Standard		
Network Management Card (SNMP)	Optional **WEBCARDLX** (See page 21 for more information.)		
MODBUS	Optional **MODBUSCARDSV**		
Relay Interface Card	Optional **RELAYCARDSV**		
Frequency Converter Mode	Programmable		
Parallel Capability for Capacity	No	Up to 3 Units	
EPO (Emergency Power Off)	Standard		
STANDARDS			
Safety	IEC/EN 62040-1		
EMC	IEC/EN 62040-2; IEC/EN 61000-4-2; IEC/EN 61000-4-3		
Surge	IEC/EN 61000-4-5 Level 4		
Conduction Immunity	IEC/EN 61000-4-6		
Approvals	TUV		
Additional	RoHS, IP20 Ingress Protection Rating		
PHYSICAL			
Unit Dimensions (H x W x D)	862 x 250 x 813 mm		1035 x 300 x 813 mm
Unit Weight	118 kg	178 kg	235 kg
Shipping Dimensions (H x W x D)	1060 x 380 x 920 mm		1240 x 430 x 920 mm
Shipping Weight	135 kg	195 kg	255 kg
Cabinet Colour	RAL 9005 (Black)		
ADDITIONAL ACCESSORIES (Sold Separately)			
Maintenance Bypass Panels	**SU10KMBPKX**	**SU20KMBPKX**	**SU40KMBPKX**
Matching External Battery Cabinets	**BP240V135** (Connect up to 3 battery cabinets per UPS.)		

SmartOnline SUTX Series

20 / 40 kVA, 380/400/415V Ph-Ph

- VFI operation and IGBT with DSP control
- Up to 95% double-conversion efficiency
- Unity output power factor (1,0)
- Optional network management card
- Built-in static and maintenance bypass
- Parallel capability up to 160 kVA
- Dual redundant AC inputs
- ≤14 min. at full load with internal batteries
- Up to several hours of runtime at full load with external batteries

Advanced, high-efficiency protection for installations that may require N+N redundancy

Key Features and Benefits

SCALABLE, FAULT-TOLERANT ARCHITECTURE

- Parallel capability provides up to 160 kVA and supports N+N redundancy
- Space-saving internal batteries enable short-runtime applications with an optimised footprint
- Optional external battery cabinets outlast extended outages to enable long-runtime applications
- Built-in static and maintenance bypass transfer load to utility power during faults, overloads and service
- Dual AC inputs can connect to independent sources for additional power redundancy and increased availability

POWERFUL UPS MANAGEMENT

- User-friendly LCD control panel permits full-featured local management through a user-friendly interface
- Optional **WEBCARDLX** network card enables remote management through embedded HTML5 web, SSH/telnet and SNMP interfaces, as well as integration with Network Management Systems and DCIM platforms (See page 21 for more information.)
- Standard Emergency Power Off (EPO) allows immediate shutdown during emergencies

EFFICIENT, HIGH-PERFORMANCE OPERATION

- Voltage- and frequency-independent (VFI) operation and transformerless IGBT rectifier technology with DSP control provide reliable output power quality with pure sine wave
- 95% double-conversion efficiency and 99% ECO-mode efficiency reduce power and cooling costs
- Low THDi (4 – 5%) improves generator compatibility and eliminates costly over-sizing requirements
- Low THDv (1%) and active power factor correction improve output performance
- Unity output power factor (1,0) allows the UPS to support more equipment without overloading
- High charging capacity allows the UPS to ride through multiple power failures in rapid succession

COMPREHENSIVE SERVICE PROGRAM

- Tripp Lite Care improves UPS reliability, longevity and cost control (See page 24 for more information.)

Typical Applications: Small and medium installations, dedicated IT space and mixed-use buildings with IT load ≤80 kW

SmartOnline SUTX Series Technical Specifications

OVERVIEW		
Model	**SUTX20K**	**SUTX40K**
Capacity	20 kVA / 20 kW	40 kVA / 40 kW
Topology	Voltage- and Frequency-Independent (VFI) True On-Line Double Conversion	
INPUT		
Voltage	380/400/415V (Ph-Ph); 220/230/240V (Ph-N)	
Voltage Range	300–477V (100% Load)	
Phase	3-Phase, Neutral and Ground	
Operating Frequency (Range)	50/60 Hz, Selectable (40–70 Hz)	
Power Factor	>0,99%	
THDi	5%	4%
Inverter Bridge	IGBT Technology	
OUTPUT		
Voltage	380/400/415V (Ph-Ph); 220/230/240V (Ph-N)	
AC Voltage Regulation	±1%	
Frequency (Range)	50/60 Hz, Selectable (±0,05 Hz)	
Efficiency	95% Line Mode (100% Load); 99% ECO Mode (100% Load)	
Overload (AC and Battery Mode)	105% (Continuous); 106–125% (10 min.); 126–150% (1 min.); >150% (1 sec.)	
Crest Factor	3:1	
Harmonic Distortion	1% (Linear Load), 3% (Non-Linear Load)	1% (Linear Load), 2% (Non-Linear Load)
Transfer Time	0 ms (Line ‹–› Battery); 0 ms (Inverter ‹–› Bypass)	
Output Waveform	Pure Sine Wave	
BYPASS		
Static and Maintenance Bypass	Standard	
Transfer Time	0 ms	
Default Bypass Voltage Tolerance	±15%	
Overload	105% (Continuous); 106–125% (10 min.); 126–150% (1 min.); >150% (1 sec.)	
BATTERY		
Battery Type	Maintenance-Free Sealed Valve-Regulated Lead-Acid (VRLA)	
Battery Capacity	12V 9 Ah	
Quantity	40 x 2 Strings	
Battery Charging Capacity	1,5A–5A (Default: 1,5A)	1,5A–5A (Default: 2A)
Float Voltage	272V DC ±2%	
Boost Voltage	280V DC ±2%	
End of Discharge Voltage	192V DC ±2%	
Battery Storage Time	6 Months (Without Recharge, 25° C)	
Battery Runtime (50%/100% Load)	33 / 14 min.	14 / 5 min.
ENVIRONMENT		
Operating Temperature / Humidity	0–40° C (For Optimal Battery Life: 17–25° C) / 0–95% (Non-Condensing)	
Operating Altitude	<1000 m (Derate 1% per 100 m above 1000 m.)	
Audible Noise	<55 dBA @ 1 m	<60 dBA @ 1 m
MANAGEMENT		
Control Panel	130 mm Multifunction LCD	
RS-232 Serial (DB9)	Standard	
Contact Closure	Standard	
Network Management Card (SNMP)	Optional **WEBCARDLX** (See page 21 for more information.)	
MODBUS	Optional **MODBUSCARD**	
Frequency Converter Mode	Programmable	
Parallel Connection Capability	Up to 4 Units for Capacity or Redundancy	
EPO (Emergency Power Off)	Standard	
STANDARDS		
Safety	IEC/EN 62040-1	
EMC	IEC/EN 62040-2; IEC/EN 61000-4-2; IEC/EN 61000-4-3	
Surge	IEC/EN 61000-4-5 Level 4	
Conduction Immunity	IEC/EN 61000-4-6	
Approvals	TUV	
Additional	RoHS, IP20 Ingress Protection Rating	
PHYSICAL		
Unit / Shipping Dimensions (H x W x D)	1400 x 490 x 840 mm / 1642 x 725 x 1010 mm	
Unit / Shipping Weight	363 kg / 400 kg	383 kg / 420 kg
Cabinet Colour	RAL 9005 (Black)	
ADDITIONAL ACCESSORIES (Sold Separately)		
External Battery Cabinets	BP480V200 / BP480V300 / BP480V400 / BP480V500 (Non-matching battery cabinets with batteries included for a range of long-runtime applications. See www.tripplite.com for more information.) Connect up to 4 external battery cabinets per UPS.	
Maintenance Bypass Panels	SUT20KMBPX	SUT40KMBPX

Best-value, high-performance power protection with best-in-class footprint and unique battery-sharing capability

SmartOnline S3MX Series

30–200 kVA, 380/400/415V Ph-Ph

- Best-in-class footprint and power density

- Reduced cost of ownership

- Large, advanced colour touchscreen

- Efficient and reliable operation

- Powerful network management

- Parallel for redundancy and capacity up to 3 units (30-80 kVA) and up to 2 units (100-200 kVA)

- VFI operation with DSP control

- Dual AC inputs available

- Comprehensive service plans

Key Features and Benefits

BEST-IN-CLASS FOOTPRINT AND POWER DENSITY

- Compact footprint for up to 200 kVA saves valuable space for revenue-generating equipment and allows installation in smaller spaces without the expense and delay of retrofitting

- Parallel capability provides up to 400 kVA

EFFICIENT, HIGH-PERFORMANCE OPERATION

- Highly efficient transformerless double-conversion technology delivers operating cost savings

- 94% double-conversion efficiency and 98% ECO-mode efficiency reduce power and cooling costs

- Low THDi (< 3%) improves generator compatibility and eliminates costly over-sizing requirements

- Low THDv (≤ 2%) and active power factor correction improve output performance

- Built-in static and maintenance bypass transfer UPS load to utility power during faults, overloads and service to avoid costly system downtime

- Unified platform and firmware design reduces the number of unique boards, improving mean time to repair (MTTR)

UNIQUE BATTERY-SHARING CAPABILITY

- Two S3MX UPS systems can share a single battery cabinet, providing substantial cost and space savings

POWERFUL UPS MANAGEMENT

- Extra-large (25,4 cm/10 in.) colour touchscreen display permits comprehensive local management through an advanced and user-friendly interface (100–200 kVA models)

- Optional **WEBCARDLX** network card enables remote management through embedded HTML5 web, SSH/telnet and SNMP interfaces, as well as integration with Network Management Systems and DCIM platforms (See page 21 for more information.)

- Standard Remote Emergency Power Off (REPO) allows shutdown from a safe distance during emergencies

RELIABLE PERFORMANCE

- Parallel for redundancy or capacity

- Dual AC inputs can connect to independent sources for additional power redundancy and increased availability

- Voltage and frequency independent (VFI) operation and advanced IGBT rectifier technology with DSP control provide reliable output power quality

- Built-in static and maintenance bypass transfer UPS load to utility power during faults, overloads and maintenance to avoid costly system downtime

> **Typical Applications: Small and medium data centres, light industrial settings and large corporate networks with IT load ≤ 400 kW or 50 server racks at 8 kW/rack**

SmartOnline S3MX Series Technical Specifications

Models (Single AC Input)	S3M30KX	S3M40KX	S3M60KX	S3M80KX	S3M100KX	S3M120KX	S3M160KX	S3M200KX
Models (Dual AC Input)	S3M30KXD	S3M40KXD	S3M60KXD	S3M80KXD	S3M100KXD	S3M120KXD	S3M160KXD	S3M200KXD
OVERVIEW								
Capacity (VA)	30 kVA	40 kVA	60 kVA	80 kVA	100 kVA	120 kVA	160 kVA	200 kVA
Capacity (Watts)	27 kW	36 kW	54 kW	72 kW	90 kW	108 kW	144 kW	180 kW
INPUT								
Nominal Voltage	Ph-Ph 380V/400V/415V (Ph-N 220V/230V/240V)							
Voltage Range	Ph-Ph 208-478V at < 50% Load; Ph-Ph 208-478V to 305-478V at 50% to 80% Load (Voltage Range Varies with Load); Ph-Ph 305-478V at > 80% Load							
Voltage Comeback	Low-Loss Voltage +10V; High-Loss Voltage -10V							
Nominal Frequency	50/60 Hz (Auto-Selectable)							
Frequency Range	46-54 Hz (50 Hz System); 56-64 Hz (60 Hz System)				40-70 Hz			
Phase	3-Phase with Neutral (3-Phase, Neutral + Ground)							
Power Factor (100% Load)	≥ 0,99							
Harmonic Distortion (THDi; 100% Load)	< 3%							
OUTPUT								
Phase	3-Phase with Neutral (3-Phase, Neutral + Ground)							
Nominal Voltage	Ph-Ph 380V/400V/415V (Ph-N 220V/230V/240V)							
AC Voltage Regulation (Double-Conversion Mode)	±1% (Balanced Load)							
AC Voltage Regulation (Converter Mode or Battery Mode)	±1%							
Power Factor	0,9							
AC Voltage Regulation (ECO Mode)	± 11V of Nominal				± 15V of Nominal			
Frequency	46-54 Hz (50 Hz System); 56-64 Hz (60 Hz System)				Selectable ± 1 Hz, ± 2 Hz, ± 4 Hz of Input (Default: ± 4 Hz)			
Frequency Regulation (Converter Mode or Battery Mode)	± 0,1 Hz							
Frequency Range (Battery Mode)	50 Hz ± 0,1 Hz or 60 Hz ± 0,1 Hz							
Overload (AC Mode)	Up to 110% = 10 min; Up to 130% = 1 min; > 130% = 1 s				Up to 110% = 1 h; Up to 125% = 10 min; Up to 150% = 1 min; > 150% = 200 ms			
Overload (Battery Mode)	Up to 110% = 30 s; Up to 130% = 10 s; > 130% = 1 s				Up to 110% = 1 h; Up to 125% = 10 min; Up to 150% = 1 min; > 150% = 200 ms			
Current Crest Ratio	3:1 Maximum							
Harmonic Distortion (100% Load)	≤ 2% THD (Linear Load); ≤ 4% THD (Non-Linear Load)							
Transfer Time (Line ⟷ Battery)	0 ms							
Transfer Time (Inverter ⟷ Bypass)	Synchronous = 0 ms; Asynchronous < 4 ms				Synchronous = 0 ms; Asynchronous < 1 cycle			
Transfer Time (Inverter ⟷ ECO)	< 10 ms				< 20 ms			
BYPASS INPUT								
Nominal Voltage	Ph-Ph 380V/400V/415V							
Phase	3-Phase with Neutral (3-Phase, Neutral + Ground)							
Voltage Range	Upper Limit: Ph-N 231-264V / Lower Limit: Ph-N 176-209V				Upper Limit: +10%, +15% or +20% / Lower Limit: -10%, -20% or -30%			
Nominal Frequency	50/60 Hz (Auto-Selectable)							
Frequency Range	Selectable: ± 1-4 Hz (Default: ± 4 Hz)				Selectable: ± 1 Hz, ± 2 Hz, ± 4 Hz (Default: ± 4 Hz)			
Overload (Bypass Mode)	< 150% = 1 min				105-110% = 1 h; 111-125% = 10 min; 126-150% = 1 min; > 150% = 200 ms			
EFFICIENCY								
AC Line Mode	94% at 100% Resistive Load; 93,5% at 50% Resistive Load				94% at 100% Resistive Load; 93,5% at 50% Resistive Load			
ECO Mode	98%, at 100% Resistive Load; 97,5% at 50% Resistive Load				98% at 100% Resistive Load; 97% at 50% Resistive Load			
Battery Mode	93,5% at 100% Resistive Load; 93% at 50% Resistive Load				93% at 100% Resistive Load; 92,5% at 50% Resistive Load			
PARALLEL								
Parallel for Capacity & Redundancy	Up to 3 Units				Up to 2 Units			

**INTERNAL BATTERIES (S3M30KX, S3M30KXD, S3M40KX and S3M40KXD include internal batteries.
Versions are also available without internal batteries: S3M30KX-NIB, S3M30KXD-NIB, S3M40KX-NIB and S3M40KXD-NIB.)**

Type	12V Non-Spillable VRLA AGM/GEL	
Capacity	9 Ah	10 Ah
Quantity	80 (2 x Strings of 20 + 20)	
Runtime (50%/100% Load)	17/5,7 min	15/5 min
Recharge Time	9 h to 90%	
Maximum Charging Current with Included Charging Board	Adjustable up to 4A ±10% (Default 2A ±10%)	
Float Voltage	13,65V/Battery; 2,27V/Cell	
Boost Charging	14,1V/Battery; 2,35V/Cell	
End of Discharge	10V/Battery; 1,67V/Cell	

No Internal Batteries

External Batteries Required for **S3M30KX-NIB, S3M30KXD-NIB, S3M40KX-NIB, S3M40KXD-NIB, S3M60KX, S3M60KXD, S3M80KX, S3M80KXD, S3M100KX, S3M100KXD, S3M120KX, S3M120KXD, S3M160KX, S3M160KXD, S3M200KX** and **S3M200KXD**

SmartOnline S3MX Series Technical Specifications (continued)

Models (Single AC Input)	S3M30KX	S3M40KX	S3M60KX	S3M80KX	S3M100KX	S3M120KX	S3M160KX	S3M200KX
Models (Dual AC Input)	S3M30KXD	S3M40KXD	S3M60KXD	S3M80KXD	S3M100KXD	S3M120KXD	S3M160KXD	S3M200KXD
EXTERNAL BATTERIES (S3M30KX-NIB, S3M30KXD-NIB, S3M40KX-NIB, S3M40KXD-NIB, S3M60KX, S3M60KXD, S3M80KX, S3M80KXD, S3M100KX, S3M100KXD, S3M120KX, S3M120KXD, S3M160KX, S3M160KXD, S3M200KX and S3M200KXD require external batteries for backup.)								
Type	12V Non-Spillable VRLA AGM/GEL							
DC Nominal Acceptance Voltage	± 240 VDC							
Quantity	40N (N ≥ 1 x Strings of 20 + 20)							
Maximum Charging Current	Adjustable up to 4A ± 10% (Max 12A with 2 x CBKIT30-40.)		Adjustable up to 8A ± 10% (Max 24A with 2 x CBKIT30-80.)		Adjustable up to 24A ± 1%	Adjustable up to 32A ± 1%	Adjustable up to 40A ± 1%	Adjustable up to 48A ± 1%
Float Voltage	13,65V/Battery; 2,27V/Cell							
Boost Charging	14,1V/Battery; 2,35V/Cell							
End of Discharge	10V/Battery; 1,67V/Cell							
Charger Temperature Compensation	N/A				-3 mV/Cell/°C (Requires optional **TEMPC100200** thermostat kit.)			
PHYSICAL								
Dimensions (H x W x D)	1000 x 300 x 815 mm	1000 x 300 x 815 mm	1010 x 360 x 790 mm	1010 x 360 x 790 mm	1015 x 567 x 945 mm	1015 x 567 x 945 mm	1455 x 567 x 995 mm	1455 x 567 x 995 mm
Unit Weight (With Internal Batteries)	265 kg	316 kg	N/A	N/A	N/A	N/A	N/A	N/A
Unit Weight (Without Internal Batteries)	60 kg	61 kg	108 kg	113 kg	197 kg	232 kg	309 kg	343 kg
ENVIRONMENT								
Operating Temperature	0 to 40° C (≤ 25° C for optimal battery lifespan.)							
Storage Temperature	0 to 35° C (UPS with batteries.); -15 to 60° C (UPS without batteries.)							
Operating Humidity	0 to 95% (Non-Condensing)							
Operating Altitude	< 1000 m (Derate output power by 1% per 100 m above 1000 m.)							
Audible Noise	< 60 dBA at 1 m	< 70 dBA at 1 m	< 70 dBA at 1 m	< 75 dBA at 1 m	< 70 dBA at 1 m		< 73 dBA at 1 m	
Heat Dissipation (100% Load)	5527 BTU/h	7362 BTU/h	11054 BTU/h	14738 BTU/h	19600 BTU/h	23507 BTU/h	31343 BTU/h	39179 BTU/h
Heat Dissipation (50% Load)	2994 BTU/h	3992 BTU/h	5998 BTU/h	7984 BTU/h	9974 BTU/h	11048 BTU/h	14731 BTU/h	18414 BTU/h
MANAGEMENT								
Network Management Interface	Requires optional **WEBCARDLX**. (Monitor, control and reboot the UPS using HTML5 web, SSH/telnet and SNMP interfaces. Supports centralised management through integration with a wide range of Network Management Systems and DCIM platforms.)							
Control Panel	62 mm LCD with supplemental LEDs.				Large 254 mm / 10 in. colour LCD touchscreen with supplemental LEDs. (Monitor, control, configure and diagnose the UPS from the display.)			
Contact Closure Interface	Requires Optional **RELAYCARDSV** Programmable Relay I/O Card							
Remote Emergency Power Off (REPO)	Feature Included (Default: Normally Closed)							
RS-232	Included (Service Only)							
STANDARDS								
Safety	IEC/EN 62040-1:2008+A1:2013 (TUV Approval)							
EMC/EMI	EN 62040-2:2017 / IEC 62040-2:2016 (TUV Approval)							
Ingress Protection Rating	IP20							
CE Marking	Yes							
RoHS Compliant	Yes							
Quality Management System	ISO 9001							
OTHER INFORMATION								
Colour	RAL 9005 Jet Black							
Mobility	Casters							
ACCESSORIES (Sold Separately)								
Scalable Battery Cabinets	Support 5 min to 3 h runtime at 100% load. Available models include **BP480V100-NIB, BP480V100, BP480V65-NIB, BP480V65, BP480V40-NIB, BP480V40, BP480V10-NIB, BP480V10, BP480V09**. (NIB=No internal batteries.)							
Network Management Card	**WEBCARDLX** (Monitor, control and reboot the UPS using HTML5 web, SSH/telnet and SNMP interfaces. Supports centralised management through integration with a wide range of Network Management Systems and DCIM platforms.)							
Remote Environmental Sensors (Requires **WEBCARDLX**)	**E2MT** (Temperature Sensor); **E2MTDO** (Temperature Sensor with Digital Outputs); **E2MTDI** (Temperature Sensor with Digital Inputs); **E2MTHDI** (Temperature/Humidity Sensor with Digital Inputs); **E2SLD** (Water Leak Detection Sensor - also requires **E2MTHDI**)							
Contact Closure Card	**RELAYCARDSV**							
MODBUSCARD	**MODBUSCARDSV**							
External Bypass Panel	Contact your local sales representative or distributor for more information.							
Scalable Charger Board Kits	**CBKIT30-40** (Adds 4A; Max 2)		**CBKIT30-80** (Adds 8A; Max 2)		N/A			
Battery Temperature Compensation Thermostat Kit	N/A				**TEMPC100200**			

Best value for growing businesses; scalable via 30 kVA modules with N+1; high efficiency; low mean time to repair (MTTR)

SmartOnline SVX Series

30–210 kVA (N+1), 380/400/415V Ph-Ph

- Modular, scalable UPS platform
- Up to 95% double-conversion efficiency
- VFI operation and IGBT with DSP control
- Unity output power factor (1,0)
- Built-in network management card
- Built-in static and maintenance bypass
- N+1 redundancy and dual AC inputs
- Rack-based cabinet (30U or 42U)
- ≤17 min. at full load with internal batteries
- ≤223 min. at full load with external batteries

Key Features and Benefits

MODULAR, SCALABLE, FAULT-TOLERANT ARCHITECTURE

- Hot-swappable 30 kVA power modules can increase capacity and/or provide N+1 redundancy for fault tolerance
- Power and battery modules can be added or replaced without powering down for zero-downtime maintenance
- All UPS capacities are available without internal batteries for long-runtime applications using external battery cabinets
- 30–90 kVA models are also available with internal batteries for shorter-runtime applications with a smaller footprint
- Dual AC inputs can connect to independent sources for additional power redundancy and increased availability
- Built-in static and maintenance bypass transfer load to utility power during faults, overloads and service

POWERFUL UPS MANAGEMENT

- Large LCD control panel permits full-featured local management through a user-friendly interface
- Included **WEBCARDLX** network card enables remote management through embedded HTML5 web, SSH/telnet and SNMP interfaces, as well as integration with Network Management Systems and DCIM platforms (See page 21 for more information.)
- Standard Emergency Power Off (EPO) allows immediate shutdown during emergencies

EFFICIENT, HIGH-PERFORMANCE OPERATION

- 95% double-conversion efficiency and 99% ECO-mode efficiency reduce power and cooling costs
- Voltage- and frequency-independent (VFI) operation and transformerless IGBT rectifier technology with DSP control provide reliable output power quality with pure sine wave
- Low THDi (< 3%) improves generator compatibility and eliminates costly over-sizing requirements
- Low THDv (< 1,5%) and active power factor correction improve output performance
- Unity output power factor (1,0) allows the UPS to support more equipment without overloading

COMPREHENSIVE SERVICE PROGRAM

- Tripp Lite Care ensures your UPS is ready to protect you from downtime over its entire lifecycle, from initial startup to annual service agreements and preventive maintenance
- Regular service improves UPS reliability, longevity and cost control (See page 24 for more information.)

Typical Applications: Small and medium data centres, light industrial settings and large corporate networks with IT load ≤210 kW or 26 server racks at 8 kW/rack

SmartOnline SVX Series Technical Specifications

OVERVIEW		30K	60K	90K	120K	150K	180K	210K
CAPACITY kVA/kW		30/30	60/60	90/90	120/120	150/150	180/180	210/210
TOPOLOGY		Voltage- and Frequency-Independent (VFI) True On-Line Double Conversion						
INPUT								
Voltage		380/400/415V (Ph-Ph); 220/230/240V (Ph-N)						
Voltage Range		305V–478V (Ph-Ph); 100% Load						
Phase		3-Phase, Neutral and Ground						
Operating Frequency (Range)		50/60 Hz, Selectable (40–70 Hz ±0,1 Hz)						
Power Factor		>0,99						
THDi		<3%						
Inverter Bridge		IGBT Technology						
OUTPUT								
Voltage		380/400/415V (Ph-Ph); 220/230/240V (Ph-N)						
AC Voltage Regulation		<1% (Balanced Load)						
Frequency (Range)		50/60 Hz, Selectable (40–70 Hz ±0,1 Hz)						
Efficiency (ECO Mode/Line Mode)		>99%/>95% (100% Load)						
Overload	AC Mode	105%–110%: 60 min./111%–125%: 10 min./126%–150%: 1 min./>150%: 200 ms						
	Battery Mode	105%–110%: 60 min./111%–125%: 10 min./126%–150%: 1 min./>150%: 200 ms						
Crest Factor		3:1						
Harmonic Distortion		1,5% (100% linear load); <4% (100% Non-Linear Load)						
Output Waveform		Pure Sine Wave						
BYPASS								
Static and Maintenance Bypass		Standard						
Transfer Time		≤1 ms						
Bypass Voltage Tolerance (Default)		+15%/-20%						
Overload		105%–110%: 60 min./111%–125%: 10 min./126%–150%: 1 min./>150%: 200 ms						
BATTERY								
Battery Type*		Maintenance-Free Sealed Valve-Regulated Lead-Acid (VRLA)						
Battery Capacity*		12V 9Ah						
Float Voltage		2,3V/Cell						
Boost Voltage		2,35V/Cell						
End-of-Discharge Voltage		1,67V/Cell						
Battery Storage Time*		6 months (Without Recharge, Stored at 25°C)						
Battery Charger Capacity		8A (2A default)						
Estimated Maximum Runtime with Internal Battery Modules, 100% Load		17 min.	7 min.	4,2 min.	N/A	N/A	N/A	N/A
Estimated Maximum Runtime with External Battery Cabinet(s), 100% Load**		222 min.	98 min.	59 min.	41 min.	31 min.	24 min.	20 min.

*Applies to models with internal battery modules. **External battery cabinets are sold separately. Runtime varies with model. See accessories section on next page for more information.

ENVIRONMENT	
Operating Temperature	0° to 40°C
Storage Temperature	-15° to 60°C (Excluding Battery)
Operating Humidity	0 to 95% (Non-Condensing)
Operating Altitude	<1000 m (1% Deration per 100 m Above 1000 m)
Audible Noise	<73 dBA at 1 m
Colour	RAL 9005 (Jet Black)
MANAGEMENT	
Control Panel	Large 145 mm Multifunction LCD
Network Management Card (SNMP)	**WEBCARDLX** Included (See page 21 for more information.)
MODBUS	Optional **MODBUSCARDSV**
Contact Closure	Optional (**RELAYCARDSV** Sold Separately)
Emergency Power Off (EPO)	Standard
STANDARDS	
Safety	IEC/EN 62040-1
EMC	IEC/EN 62040-2
Approvals	TUV
Additional	RoHS, IP20 Ingress Protection Rating

SmartOnline SVX Series Technical Specifications (continued)

ADDITIONAL ACCESSORIES (Sold Separately)							
	30K	60K	90K	120K	150K	180K	210K
Power Modules	SVX30PM (Hot-swappable 30 kVA / 30 kW power modules for SVX series UPS models.)						
Internal Battery Modules	SVXBM (Hot-swappable battery modules for SVX series UPS models with internal batteries.)						
External Battery Cabinets	BP480V370 (Matching 42U battery cabinet with batteries for long-runtime applications.)						
	BP480V370NB (Matching 42U battery cabinet without batteries for long-runtime applications.)						
	BP480V200 / BP480V300 / BP480V400 / BP480V500 (Non-matching battery cabinets with batteries for a range of long-runtime applications. See www.tripplite.com for more information.)						
Maintenance Bypass Panels	SU40KMBPKX	SU60KMBPKX	SU100KMBPKX	SU120KMBPKX	SU160KMBPKX	SU180KMBPKX	SU210KMBPKX

Small Frame (30U) Maximum Configurable Power: 90 kVA / 90 kW

Total Dimensions (H x W x D): 1475 x 600 x 1100 mm • Shipping Dimensions (H x W x D): 1650 x 750 x 1220 mm

Capacity	Model	Battery Configuration	Runtime (100% Load)	Unit Weight	Shipping Weight
NEW 30 kVA / 30 kW	SVX30KS1P0B	Internal Batteries: N/A	N/A	294 kg	351 kg
30 kVA / 30 kW	SVX30KS1P2B	Internal Batteries: 2 SVXBM	4,7 min.	502 kg	573 kg
30 kVA / 30 kW	SVX30KS1P3B	Internal Batteries: 3 SVXBM	9 min.	606 kg	684 kg
NEW 60 kVA / 60 kW	SVX60KS2P0B	Internal Batteries: N/A	N/A	328 kg	389 kg
60 kVA / 60 kW	SVX60KS2P3B	Internal Batteries: 3 SVXBM	3,5 min.	641 kg	722 kg
90 kVA / 90 kW	SVX90KS3P	External Battery Cabinet(s)*	6,2 – 59 min.**	363 kg***	427 kg***

*External battery cabinets are sold separately. **Range available with recommended battery cabinet options. ***Without external battery cabinets.

Medium Frame (42U) Maximum Configurable Power: 90 kVA / 90 kW

Total Dimensions (H x W x D): 2010 x 600 x 1100 mm • Shipping Dimensions (H x W x D): 2175 x 750 x 1220 mm

Capacity	Model	Battery Configuration	Runtime (100% Load)	Unit Weight	Shipping Weight
30 kVA / 30 kW	SVX30KM1P2B	Internal Batteries: 2 SVXBM	4,7 min.	517 kg	596 kg
30 kVA / 30 kW	SVX30KM1P3B	Internal Batteries: 3 SVXBM	9 min.	621 kg	707 kg
30 kVA / 30 kW	SVX30KM1P4B	Internal Batteries: 4 SVXBM	13 min.	725 kg	818 kg
30 kVA / 30 kW	SVX30KM1P5B	Internal Batteries: 5 SVXBM	17 min.	829 kg	929 kg
60 kVA / 60 kW	SVX60KM2P3B	Internal Batteries: 3 SVXBM	3,5 min.	655 kg	745 kg
60 kVA / 60 kW	SVX60KM2P4B	Internal Batteries: 4 SVXBM	5 min.	759 kg	856 kg
60 kVA / 60 kW	SVX60KM2P5B	Internal Batteries: 5 SVXBM	7 min.	863 kg	967 kg
90 kVA / 90 kW	SVX90KM3P5B	Internal Batteries: 5 SVXBM	4,2 min.	898 kg	1005 kg

Large Frame (42U) Maximum Configurable Power: 210 kVA / 210 kW

Total Dimensions (H x W x D): 2010 x 600 x 1100 mm • Shipping Dimensions (H x W x D): 2175 x 750 x 1220 mm

Capacity	Model	Battery Configuration	Runtime (100% Load)	Unit Weight	Shipping Weight
30 kVA / 30 kW	SVX30KL	External Battery Cabinet(s)*	28 – 223 min.**	308 kg***	373 kg***
60 kVA / 60 kW	SVX60KL	External Battery Cabinet(s)*	11 – 98 min.**	342 kg***	411 kg***
90 kVA / 90 kW	SVX90KL	External Battery Cabinet(s)*	6,2 – 59 min.**	377 kg***	449 kg***
120 kVA / 120 kW	SVX120KL	External Battery Cabinet(s)*	4 – 41 min.**	411 kg***	487 kg***
150 kVA / 150 kW	SVX150KL	External Battery Cabinet(s)*	4,9 – 31 min.**	446 kg***	525 kg***
180 kVA / 180 kW	SVX180KL	External Battery Cabinet(s)*	5,7 – 24 min.**	480 kg***	563 kg***
210 kVA / 210 kW	SVX210KL7P	External Battery Cabinet(s)*	4,3 – 20 min.**	515 kg***	601 kg***
210 kVA / 210 kW N+1	SVX210KL8P	External Battery Cabinet(s)*	4,3 – 20 min.**	549 kg***	639 kg***

*External battery cabinets are sold separately. **Range available with recommended battery cabinet options. ***Without external battery cabinets.

SmartOnline SUT Series

20 / 30 / 40 / 60 kVA, 208/220V Ph-Ph

- VFI operation and IGBT with DSP control
- Up to 93% double-conversion efficiency
- Unity output power factor (1,0)
- Optional network management card
- Built-in static bypass
- Parallel capability up to 240 kVA
- Dual redundant AC inputs
- ≤6 min. at full load with internal batteries
- ≤110 min. at full load with external batteries

Advanced protection for installations that may require N+N redundancy

Key Features and Benefits

SCALABLE, FAULT-TOLERANT ARCHITECTURE

- Parallel capability provides up to 240 kVA and supports N+N redundancy
- Space-saving internal batteries enable short-runtime applications with a small footprint
- Optional external battery cabinets outlast extended outages to enable long-runtime applications
- Built-in static bypass transfers load to utility power during faults and overloads
- Dual AC inputs can connect to independent sources for additional power redundancy and increased availability

POWERFUL UPS MANAGEMENT

- User-friendly LCD control panel permits full-featured local management through a user-friendly interface
- Optional **WEBCARDLX** network card enables remote management through embedded HTML5 web, SSH/telnet and SNMP interfaces, as well as integration with Network Management Systems and DCIM platforms (See page 21 for more information.)
- Standard Emergency Power Off (EPO) allows immediate shutdown during emergencies

EFFICIENT, HIGH-PERFORMANCE OPERATION

- Voltage- and frequency-independent (VFI) operation and transformerless IGBT rectifier technology with DSP control provide reliable output power quality with pure sine wave
- 93% double-conversion efficiency and 98% ECO-mode efficiency reduce power and cooling costs
- Low THDi (< 3–4%) improves generator compatibility and eliminates costly over-sizing requirements
- Low THDv (≤ 3%) and active power factor correction improve output performance
- Unity output power factor (1,0) allows the UPS to support more equipment without overloading
- High charging capacity allows the UPS to ride through multiple power failures in rapid succession

COMPREHENSIVE SERVICE PROGRAM

- Tripp Lite Care improves UPS reliability, longevity and cost control (See page 24 for more information.)

Typical Applications: Small and medium installations, dedicated IT space and mixed-use buildings with IT load ≤ 80 kW

SmartOnline SUT Series Technical Specifications

OVERVIEW				
Model	**SUT20K**	**SUT30K**	**SUT40K**	**SUT60K**
Capacity	20kVA / 20kW	30kVA / 30kW	40kVA / 40kW	60kVA / 60kW
Topology	Voltage- and Frequency-Independent (VFI) True On-Line Double Conversion			
INPUT				
Voltage	208/220V (Ph-Ph); 120/127V (Ph-N)			
Voltage Range	125–253V (Ph-Ph)			
Phase	3-Phase, Neutral and Ground			
Operating Frequency (Range)	50/60 Hz, Selectable (40–70 Hz)			
Power Factor	>0,99			
THDi	<4%			<3%
Inverter Bridge	IGBT Technology			
OUTPUT				
Voltage	208/220V (Ph-Ph); 3-Phase, 4-Wire, Neutral Reference to Bypass Neutral			
AC Voltage Regulation	±1%			
Frequency (Range)	50/60 Hz, Selectable (±0,05 Hz)			
Overload (AC and Battery Mode)	105% (Continuous); 106–125% (10 min.); 126–150% (1 min.); >150% (0,5 sec.)			
Crest Factor	3:1			
Harmonic Distortion	<2%	<2%	<2%	<3%
Transfer Time	0 ms (Line ↔ Battery); 0 ms (Inverter ↔ Bypass)			
Output Waveform	Pure Sine Wave			
BYPASS				
Static Bypass	Standard			
Transfer Time	<1 ms			
Default Bypass Voltage Tolerance	±15%			
Overload	105% (Continuous); 106–125% (10 min.); 126–150% (1 min.); >150% (0,5 sec.)			
BATTERY				
Battery Type	Maintenance-Free Sealed Valve-Regulated Lead-Acid (VRLA)			
Battery Capacity	12V 9 Ah			
Quantity	48	72	72	96
Battery Charging Capacity	1–10A (Default 5A)	1–10A (Default 7,5A)	1–20A (Default 7,5A)	1–20A (Default 10A)
Float Voltage	163,2 VDC ±2V			
Boost Voltage	168 VDC ±2V			
End of Discharge Voltage	120 VDC ±2V			
Battery Storage Time	6 months (Without Recharge, 77° F / 25° C)			
Internal Battery Runtime (50% / 100% Load)	15 / 5 min.	15 / 6 min.	11 / 3,5 min.	9,5 / 3 min.
ENVIRONMENT				
Efficiency (Line Mode)	>93%			
Efficiency (ECO Mode)	98%			
Operating Temperature	32°–104° F (For Optimal Battery Life, 62°–77° F); 0° to 40° C (For Optimal Battery Life, 17°–25° C)			
Operating Humidity	0 to 95% (Non-Condensing)			
Operating Altitude	<3280 ft. (1% Deration per 328 ft. Above 3280 ft.); <1000 m (1% Deration per 100 m Above 1000 m)			
Audible Noise @ 3 ft. / 1 m	<65 dBA		<70 dBA	
MANAGEMENT				
Control Panel	130 mm Multifunction LCD			
RS-232 Serial (DB9)	Standard			
Contact Closure	Standard			
Network Management Card (SNMP)	Optional **WEBCARDLX** (See page 21 for more information.)			
Parallel Capability	Up to 4 Units for Capacity or Redundancy			
EPO (Emergency Power Off)	Standard			
STANDARDS				
Safety	UL 1778; CSA C22.2 No. 107.3-14			
EMC	FCC Part 15 Class A; IEC/EN62040-2; IEC/EN61000-4-2; IEC/EN61000-4-3			
Surge	IEC/EN61000-4-5 Level 4			
Conduction Immunity	IEC/EN61000-4-6			
Approvals	UL			
Additional	RoHS, IP20 Ingress Protection Rating			
PHYSICAL				
Unit Dimensions (H x W x D)	54,3 x 20,5 x 31,5 in. (1380 x 521 x 800 mm)		69,3 x 20,5 x 31,5 in. (1760 x 521 x 800 mm)	
Unit Weight	767 lb. (348 kg)	926 lb. (420 kg)	1076 lb. (488 kg)	1244 lb. (564 kg)
Shipping Dimensions (H x W x D)	62 x 28 x 39 in. (1570 x 720 x 1000 mm)		76 x 28 x 39 in. (1920 x 720 x 1000 mm)	
Shipping Weight	855 lb. (388 kg)	1014 lb. (460 kg)	1186 lb. (538 kg)	1355 lb. (615 kg)
Colour	RAL 9005 (Jet Black)			
ADDITIONAL ACCESSORIES (Sold Separately)				
External Battery Cabinets	**BP288VEBP** (With Batteries) or **BP288VEBPNB** (Without Batteries)			
	Up to 4 per UPS	Up to 3 per UPS	Up to 9 per UPS	Up to 9 per UPS
Maintenance Bypass Panels	**SUT20KMBP**	**SUT30KMBP**	**SUT40KMBP**	**SUT60KMBP**

SmartOnline SV Series

20–140 kVA (N+1), 208/220V Ph-Ph

- Modular, scalable UPS platform
- VFI operation and IGBT with DSP control
- High output power factor (0,9)
- Control panel with large LCD screen
- Built-in network management card
- Built-in static and maintenance bypass
- N+1 redundancy and dual AC inputs
- Rack-based cabinet (30U or 42U)
- ≤24,5 min. at full load with internal batteries
- ≤405 min. at full load with external batteries

Best value for growing businesses; scalable via 20 kVA modules with N+1; low mean time to repair (MTTR)

Key Features and Benefits

MODULAR, SCALABLE, FAULT-TOLERANT ARCHITECTURE

- Hot-swappable 20 kVA power modules increase capacity and/or provide N+1 redundancy for fault tolerance
- Power and battery modules can be added or replaced without powering down for zero-downtime maintenance
- All UPS sizes are available without internal batteries for long-runtime applications using external battery cabinets
- Select models are also available with internal batteries for shorter-runtime applications with a smaller footprint
- Dual AC inputs can connect to independent sources for additional power redundancy and increased availability
- Built-in static and maintenance bypass transfer load to utility power during faults, overloads and service

POWERFUL UPS MANAGEMENT

- Large LCD control panel permits full-featured local management through a user-friendly interface
- Included **WEBCARDLX** network card enables remote management through embedded HTML5 web, SSH/telnet and SNMP interfaces, as well as integration with Network Management Systems and DCIM platforms (See page 21 for more information.)
- Standard Emergency Power Off (EPO) allows immediate shutdown during emergencies

HIGH-PERFORMANCE OPERATION

- Voltage- and frequency-independent (VFI) operation and transformerless IGBT rectifier technology with DSP control provide reliable output power quality with pure sine wave
- Low THDi (< 3%) improves generator compatibility and eliminates costly over-sizing requirements
- Low THDv (< 2%) and active power factor correction improve output performance
- High output power factor (0,9) allows the UPS to support more equipment without overloading

COMPREHENSIVE SERVICE PROGRAM

- Tripp Lite Care ensures your UPS is ready to protect you from downtime over its entire lifecycle, from initial startup to annual service agreements and preventive maintenance
- Regular service improves UPS reliability, longevity and cost control (See page 24 for more information.)

Typical Applications: Small and medium data centres, light industrial settings and large corporate networks with IT load ≤126 kW or 15 server racks at 8 kW/rack

SmartOnline SV Series Technical Specifications

OVERVIEW		20K	40K	60K	80K	100K	120K	140K
CAPACITY kVA		20	40	60	80	100	120	140
CAPACITY kW		18	36	54	72	90	108	126
TOPOLOGY		Voltage- and Frequency-Independent (VFI) True On-Line Double Conversion						
INPUT								
Voltage		208/220V (Ph-Ph); 120/127V (Ph-N)						
Voltage Range		156V – 253V (Ph-Ph); 90V – 146V (Ph-N); 100% load						
Phase		3-phase, neutral and ground						
Operating Frequency (Range)		50/60 Hz, Selectable (40 – 70 Hz ±0,1 Hz)						
Power Factor		>0,99						
THDi		<3%						
Inverter Bridge		IGBT Technology						
OUTPUT								
Voltage		208/220V (Ph-Ph); 120/127V (Ph-N)						
AC Voltage Regulation		<1% (Balanced Load)						
Frequency (Range)		50/60 Hz, Selectable (40 – 70 Hz ±0,1 Hz)						
Efficiency (ECO Mode / Line Mode)		>98% / >91% (100% load)						
Overload	AC Mode	105% – 110%: 60 min. / 111% – 125%: 10 min. / 126% – 150%: 1 min. / >150%: 200 ms						
	Battery Mode	105% – 110%: 60 min. / 111% – 125%: 10 min. / 126% – 150%: 1 min. / >150%: 200 ms						
Crest Factor		3:1						
Harmonic Distortion		<2% (100% Linear Load); <4% (100% Non-Linear Load)						
Output Waveform		Pure Sine Wave						
BYPASS								
Static and Maintenance Bypass		Standard						
Transfer Time		≤1 ms						
Bypass Voltage Tolerance (Default)		+15% / -20%						
Overload		105% – 110%: 60 min. / 111% – 125%: 10 min. / 126% – 150%: 1 min. / >150%: 200 ms						
BATTERY								
Battery Type*		Maintenance-Free Sealed Valve-Regulated Lead-Acid (VRLA)						
Battery Capacity*		12V 18 Ah / Module						
Float Voltage		2,3V / Cell						
Boost Voltage		2,35V / Cell						
End-of-Discharge Voltage		1,67V / Cell						
Battery Storage Time*		6 months (Without Recharge, Stored at 77° F / 25° C)						
Battery Charger Capacity		8A (2A Default)						
Estimated Maximum Runtime with Internal Battery Modules, 100% Load		24,5 min.	10 min.	5,7 min.	4 min.	N/A	N/A	N/A
Estimated Maximum Runtime with External Battery Cabinet(s), 100% Load**		405 min.	185 min.	114 min.	80 min.	61 min.	49 min.	40 min.

*Applies to models with internal battery modules. **External battery cabinets are sold separately. Runtime varies with model. See accessories section on next page for more information.

ENVIRONMENT	
Operating Temperature	32° to 104° F / 0° to 40° C
Storage Temperature	5° to 140° F / -15° to 60° C (Excluding Battery)
Operating Humidity	0 to 95% (Non-Condensing)
Operating Altitude	<3281 ft. (Derate 1% per 328 ft. above 3281 ft.); <1000 m (Derate 1% per 100 m above 1000 m.)
Audible Noise	<73 dBA at 3,3 ft. (1 m)
Colour	RAL 9005 (Jet Black)
MANAGEMENT	
Control Panel	Large 145 mm Multifunction LCD
Network Management Card (SNMP)	**WEBCARDLX** Included (See page 21 for more information.)
MODBUS	Optional **MODBUSCARDSV**
Contact Closure	Optional (**RELAYCARDSV** Sold Separately)
Emergency Power Off (EPO)	Standard
STANDARDS	
Safety	UL 1778 5th Edition; CSA C22.2 No. 107.3-14
EMC	FCC Part 15 Class A
Approvals	TUV
Additional	RoHS, IP20 Ingress Protection Rating

SmartOnline SV Series Technical Specifications (continued)

ADDITIONAL ACCESSORIES (Sold Separately)							
	20K	**40K**	**60K**	**80K**	**100K**	**120K**	**140K**
Power Modules	SV20PM (Hot-swappable 20 kVA / 18 kW power modules for SV series UPS models.)						
Internal Battery Modules	SVBM (Hot-swappable battery modules for SV series UPS models with internal batteries.)						
External Battery Cabinets	BP240V370 (Matching 42U battery cabinet with batteries for long-runtime applications.)						
	BP240V370NB (Matching 42U battery cabinet without batteries for long-runtime applications.)						
	EBP240V Series (Non-matching battery cabinets with or without batteries. 16 models available for a wide range of long-runtime applications. See www.tripplite.com for more information.)						
Maintenance Bypass Panels	SU2030KMBP	SU40KMBPK	SU60KMBPK	SU80KMBPK	SU120KMBPK	SU120KMBPK	SU140KMBPK

Small Frame (30U) Maximum Configurable Power: 60 kVA / 54 kW

Total Dimensions (H x W x D): 58,1 x 23,6 x 43,3 in. / 1475 x 600 x 1100 mm • Shipping Dimensions (H x W x D): 64,9 x 29,5 x 48 in. / 1650 x 750 x 1220 mm

Capacity	Model	Battery Configuration	Runtime (100% Load)	Unit Weight	Shipping Weight
20 kVA / 18 kW	SV20KS1P0B	External Battery Cabinet(s)*	27 – 400 min.**	648 lb. (294 kg)***	773 lb. (351 kg)***
20 kVA / 18 kW	SV20KS1P1B	Internal Batteries: 1 SVBM	4 min.	878 lb. (398 kg)	1033 lb. (469 kg)
20 kVA / 18 kW	SV20KS1P2B	Internal Batteries: 2 SVBM	10 min.	1108 lb. (503 kg)	1293 lb. (587 kg)
20 kVA / 18 kW	SV20KS1P3B	Internal Batteries: 3 SVBM	21,5 min.	1338 lb. (607 kg)	1553 lb. (705 kg)
40 kVA / 36 kW	SV40KS2P0B	External Battery Cabinet(s)*	11 – 183 min.**	724 lb. (328 kg)***	857 lb. (389 kg)***
40 kVA / 36 kW	SV40KS2P2B	Internal Batteries: 2 SVBM	4 min.	1184 lb. (537 kg)	1377 lb. (625 kg)
40 kVA / 36 kW	SV40KS2P3B	Internal Batteries: 3 SVBM	6,7 min.	1414 lb. (642 kg)	1637 lb. (743 kg)
60 kVA / 54 kW	SV60KS3P0B	External Battery Cabinet(s)*	5,9 – 113 min.**	800 lb. (363 kg)***	941 lb. (427 kg)***
60 kVA / 54 kW	SV60KS3P3B	Internal Batteries: 3 SVBM	4 min.	1490 lb. (676 kg)	1721 lb. (781 kg)

*External battery cabinets are sold separately. **Range available with recommended battery cabinet options. ***Without external battery cabinets.

Medium Frame (42U) Maximum Configurable Power: 80 kVA / 72 kW

Total Dimensions (H x W x D): 79,1 x 23,6 x 43,3 in. / 2010 x 600 x 1100 mm • Shipping Dimensions (H x W x D): 85,6 x 29,5 x 48 in. / 2175 x 750 x 1220 mm

Capacity	Model	Battery Configuration	Runtime (100% Load)	Unit Weight	Shipping Weight
20 kVA / 18 kW	SV20KM1P0B	External Battery Cabinet(s)*	26 – 404 min.**	679 lb. (308 kg)***	822 lb. (373 kg)***
20 kVA / 18 kW	SV20KM1P1B	Internal Batteries: 1 SVBM	4 min.	909 lb. (413 kg)	1082 lb. (491 kg)
20 kVA / 18 kW	SV20KM1P2B	Internal Batteries: 2 SVBM	10 min.	1139 lb. (517 kg)	1342 lb. (609 kg)
20 kVA / 18 kW	SV20KM1P3B	Internal Batteries: 3 SVBM	21,5 min.	1369 lb. (621 kg)	1602 lb. (727 kg)
20 kVA / 18 kW	SV20KM1P4B	Internal Batteries: 4 SVBM	24,5 min.	1599 lb. (726 kg)	1862 lb. (845 kg)
40 kVA / 36 kW	SV40KM2P0B	External Battery Cabinet(s)*	11 – 185 min.**	755 lb. (343 kg)***	906 lb. (411 kg)***
40 kVA / 36 kW	SV40KM2P2B	Internal Batteries: 2 SVBM	4 min.	1215 lb. (552 kg)	1426 lb. (647 kg)
40 kVA / 36 kW	SV40KM2P3B	Internal Batteries: 3 SVBM	6,7 min.	1445 lb. (656 kg)	1686 lb. (765 kg)
40 kVA / 36 kW	SV40KM2P4B	Internal Batteries: 4 SVBM	10 min.	1675 lb. (760 kg)	1946 lb. (883 kg)
60 kVA / 54 kW	SV60KM3P0B	External Battery Cabinet(s)*	6 – 114 min.**	831 lb. (377 kg)***	991 lb. (450 kg)***
60 kVA / 54 kW	SV60KM3P3B	Internal Batteries: 3 SVBM	4 min.	1521 lb. (690 kg)	1770 lb. (803 kg)
60 kVA / 54 kW	SV60KM3P4B	Internal Batteries: 4 SVBM	5,7 min.	1751 lb. (795 kg)	2030 lb. (921 kg)
80 kVA / 72 kW	SV80KM4P0B	External Battery Cabinet(s)*	5,7 – 80 min.**	907 lb. (411 kg)***	1074 lb. (487 kg)***
80 kVA / 72 kW	SV80KM4P4B	Internal Batteries: 4 SVBM	4 min.	1827 lb. (829 kg)	2114 lb. (959 kg)

*External battery cabinets are sold separately. **Range available with recommended battery cabinet options. ***Without external battery cabinets.

Large Frame (42U) Maximum Configurable Power: 140 kVA / 126 kW

Total Dimensions (H x W x D): 79,1 x 23,6 x 43,3 in. / 2010 x 600 x 1100 mm • Shipping Dimensions (H x W x D): 85,6 x 29,5 x 48 in. / 2175 x 750 x 1220 mm

Capacity	Model	Battery Configuration	Runtime (100% Load)	Unit Weight***	Shipping Weight***
20 kVA / 18 kW	SV20KL	External Battery Cabinet(s)	27 – 405 min.**	677 lb. (307 kg)	820 lb. (372 kg)
40 kVA / 36 kW	SV40KL	External Battery Cabinet(s)	11 – 185 min.**	753 lb. (342 kg)	904 lb. (410 kg)
60 kVA / 54 kW	SV60KL	External Battery Cabinet(s)	6 – 114 min.**	829 lb. (376 kg)	988 lb. (449 kg)
80 kVA / 72 kW	SV80KL	External Battery Cabinet(s)	5,7 – 80 min.**	905 lb. (411 kg)	1072 lb. (487 kg)
100 kVA / 90 kW	SV100KL	External Battery Cabinet(s)	6,6 – 61 min.**	981 lb. (445 kg)	1156 lb. (525 kg)
120 kVA / 108 kW	SV120KL	External Battery Cabinet(s)	6 – 49 min.**	1057 lb. (480 kg)	1240 lb. (563 kg)
140 kVA / 126 kW	SV140KL7P	External Battery Cabinet(s)	6,9 – 40 min.**	1133 lb. (514 kg)	1324 lb. (601 kg)
140 kVA / 126 kW (N+1)	SV140KL8P	External Battery Cabinet(s)	6,9 – 40 min.**	1209 lb. (549 kg)	1408 lb. (639 kg)

*External battery cabinets are sold separately. **Range available with recommended battery cabinet options. ***Without external battery cabinets.

Powerful Network Management is Only a Click Away

The optional **WEBCARDLX** accessory 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® Network Management System software. Learn more and download at https://www.tripplite.com/products/power-alert.
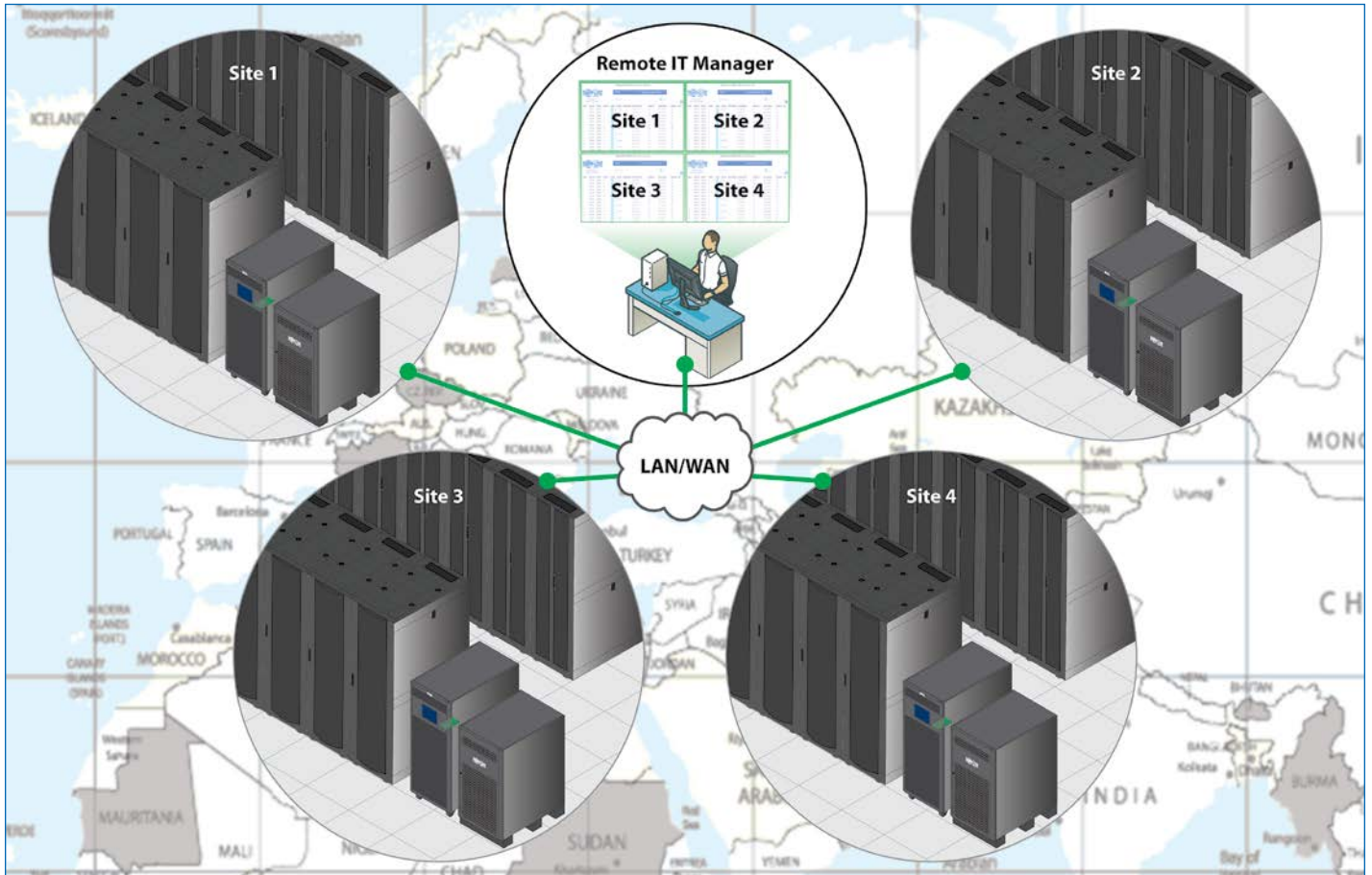

Network Management Card	
WEBCARDLX	Network Management Card for Compatible Tripp Lite UPS Systems. Provides HTML5 Web, SSH/Telnet and SNMP Interfaces.
Environmental Sensors (Require WEBCARDLX)	
E2MT	EnviroSense2 (E2) Environmental Sensor Module with Temperature.
E2MTDO	EnviroSense2 (E2) Environmental Sensor Module with Temperature and Digital Outputs.
E2MTHDI	EnviroSense2 (E2) Environmental Sensor Module with Temperature, Humidity and Digital Inputs.
E2SLD	EnviroSense2 (E2) Water Leak Detection Sensor (Requires **E2MTHDI**).
Intrusion Detection Sensor	
SRSWITCH	Magnetic Door Switch Kit (Monitors Front and Rear Doors of a Single Cabinet; Requires **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.*

Complete, Customisable Power Protection

Create a power protection solution with the size and the management systems that are ideal for your environment. Whether you only need a few minutes of battery backup runtime to ride through brief power problems or multiple hours to outlast extended power outages; whether you have a single installation across the hall or a dozen installations across the globe, Tripp Lite offers the external battery cabinets, bypass panels and monitoring technology to help build the optimal solution.

UPS Family	Battery Bus	External Battery Cabinet Model	Battery Bus Dimensions (H x W x D)	UPS Poles	UPS Model	Bypass Panel Model	Remote and Local Monitoring SNMP/HTML5	Serial Monitoring	Environmental Sensors
SUT (208V) 20-60kVA	± 144V DC	BP288VEBP	23,5 x 30,1 x 33,6 in. (597 x 765 x 853 mm)	4-Pole	SUT20K	SUT20KMBP	WEBCARDLX Optional Add-On	MODBUSCARD	
					SUT30K	SUT30KMBP			
		BP288VEBPNB			SUT40K	SUT40KMBP			
					SUT60K	SUT60KMBP			
SV (208V) 20-140kVA	± 120V DC	BP240V370 BP240V370NB	78,9 x 25,5 x 43,3 in. (2004 x 648 x 1100 mm)	3-Pole	SV20K	SU2030KMBP	WEBCARDLX Pre-Installed	MODBUSCARDSV	EnviroSense2 (E2) Monitoring; Optional Add-Ons (Require WEBCARDLX)
		EBP240V2501 EBP240V2501NB	59 x 29 x 31,5 in. (1499 x 737 x 800 mm)						
		EBP240V2502 EBP240V2502NB	59 x 58 x 31,5 in. (1499 x 1473 x 800 mm)		SV40K	SU40KMBPK			
		EBP240V3501 EBP240V3501NB	59 x 29 x 31,5 in. (1499 x 737 x 800 mm)						
		EBP240V3502	59 x 58 x 31,5 in. (1499 x 1473 x 800 mm)						E2MT: Temperature
		BP288VEBPNB	23,5 x 30,1 x 33,6 in. (597 x 765 x 853 mm)						
		EBP240V5001 EBP240V5001NB EBP240V5002 EBP240V5002NB	59 x 29 x 31,5 in. (1499 x 737 x 800 mm)		SV60K	SU60KMBPK			E2MTDO: Temperature and Digital Outputs
		EBP240V6002 EBP240V6002NB	59 x 58 x 31,5 in. (1499 x 1473 x 800 mm)		SV80K	SU80KMBPK			E2MTHDI: Temperature, Humidity and Digital Inputs
		EBP240V6003	59 x 87 x 31,5 in. (1499 x 2210 x 800 mm)		SV100K SV120K	SU120KMBPK			
		EBP240V6003NB			SV140K	SU140KMBPK			
SVTX (400V) 10-30kVA	± 240V DC	BP240V135	22,8 x 9,85 x 32,5 in. (579 x 250 x 826 mm)	3-Pole	SVT10KX	SU10KMBPKX	WEBCARDLX Optional Add-On	MODBUSCARDSV	E2SLD: Water Leak Detection Sensor (Requires E2MTHDI)
					SVT20KX	SU20KMBPKX			
					SVT30KX	SU40KMBPKX			
SUTX (400V) 20/40kVA	± 240V DC	BP480V200	59 x 29 x 31,5 in. (1499 x 737 x 800 mm)	4-Pole	SUTX20K	SUT20KMBPX	WEBCARDLX Optional Add-On	MODBUSCARD	SRSWITCH: Cabinet Door Access (Requires E2MTHDI)
		BP480V26B	45,7 x 20,5 x 33,7 in. (1161 x 521 x 856 mm)		SUTX40K	SUT40KMBPX			
SVX (400V) 30-210kVA	± 240V DC	BP480V300	78,7 x 36 x 29,5 in. (1999 x 914 x 749 mm)	3-Pole	SVX30	SU40KMBPKX	WEBCARDLX Pre-Installed	MODBUSCARDSV	
					SVX60	SU60KMBPKX			
		BP480V400			SVX90	SU100KMBPKX			
					SVX120	SU120KMBPKX			
		BP480V40C	66,9 x 20,5 x 33,7 in. (1699 x 521 x 856 mm)		SVX150	SU160KMBPKX			
		BP480V500	78,7 x 40 x 29,5 in. (1999 x 1016 x 749 mm)		SVX180	SU180KMBPKX			
					SVX210	SU210KMBPKX			
S3MX (400V) 30-200kVA	± 240V DC	BP480V40	48 x 24,7 x 35,4 in. (1219 x 627 x 899 mm)	3-Pole	S3M30KX* S3M40KX*	SU40KMBPKX	WEBCARDLX Optional Add-On	MODBUSCARDSV	
					S3M60KX	SU60KMBPKX			
		BP480V40-NIB			S3M80KX	SU80KMBPKX			
					S3M100KX	SU100KMBPKX			
					S3M120KX	SU120KMBPKX			
		BP480V65	59 x 32,5 x 44,7 in. (1499 x 826 x 1135 mm)		S3M160KX	SU160KMBPKX			
					S3M200KX	SU210KMBPKX			
					S3M30KXD	SU40KMBPKX			
		BP480V65-NIB			S3M40KXD				
					S3M60KXD	SU60KMBPKX			
					S3M80KXD	SU80KMBPKX			
		BP480V100			S3M100KXD	SU100KMBPKX			
					S3M120KXD	SU120KMBPKX			
		BP480V100-NIB			S3M160KXD	SU160KMBPKX			
					S3M200KXD	SU210KMBPKX			

* Also available without battery in single and dual input configurations.

User-Friendly Online Runtime Tools

Tripp Lite's website provides a wealth of runtime data to help you configure battery capacity for your application, including dynamic interactive runtime charts, interactive runtime tables, load calculators and downloadable, printable runtime chart PDFs.

These tools allow you to compare battery configurations to see how they affect available runtime at various load levels. They are accessible from each UPS product page at **www.tripplite.com**.
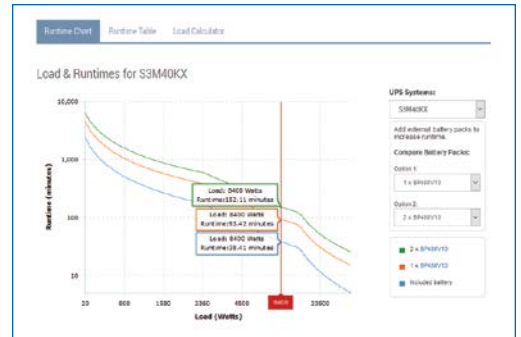
Sample UPS and External Battery Cabinet Pairings

Most Tripp Lite UPS systems support a variety of external battery cabinet options, including connecting multiple cabinets, to support a wide range of runtime configurations and applications. All units are shown approximately to scale.

SVT10KX UPS with *BP240V135* External Battery Cabinets

S3M40KX UPS with *BP480V10* External Battery Cabinets

SUTX40K UPS with *BP480V200* External Battery Cabinet

42U SVX or SV Series UPS with BP480V370 (SVX) or BP240V370 (SV) Matching 42U External Battery Cabinet

S3M200KX UPS with *BP480V100* External Battery Cabinet

SUT20K UPS with *BP288VEBP* External Battery Cabinet

SV40KS2P0B UPS with *EBP240V2501* External Battery Cabinet

Visit www.tripplite.com for additional 3-phase UPS accessories, including maintenance bypass panels.

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℠ 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 3-phase UPS system factory warranties vary by region. Optional extended warranties up to three years past 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 organisation 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 labour.

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 minimise 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 modernise 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 modernise, Tripp Lite helps you make the transition efficient and seamless, minimising disruption to your critical operations.
Note: Service availability varies with location.

Contact Tripp Lite for more information:

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