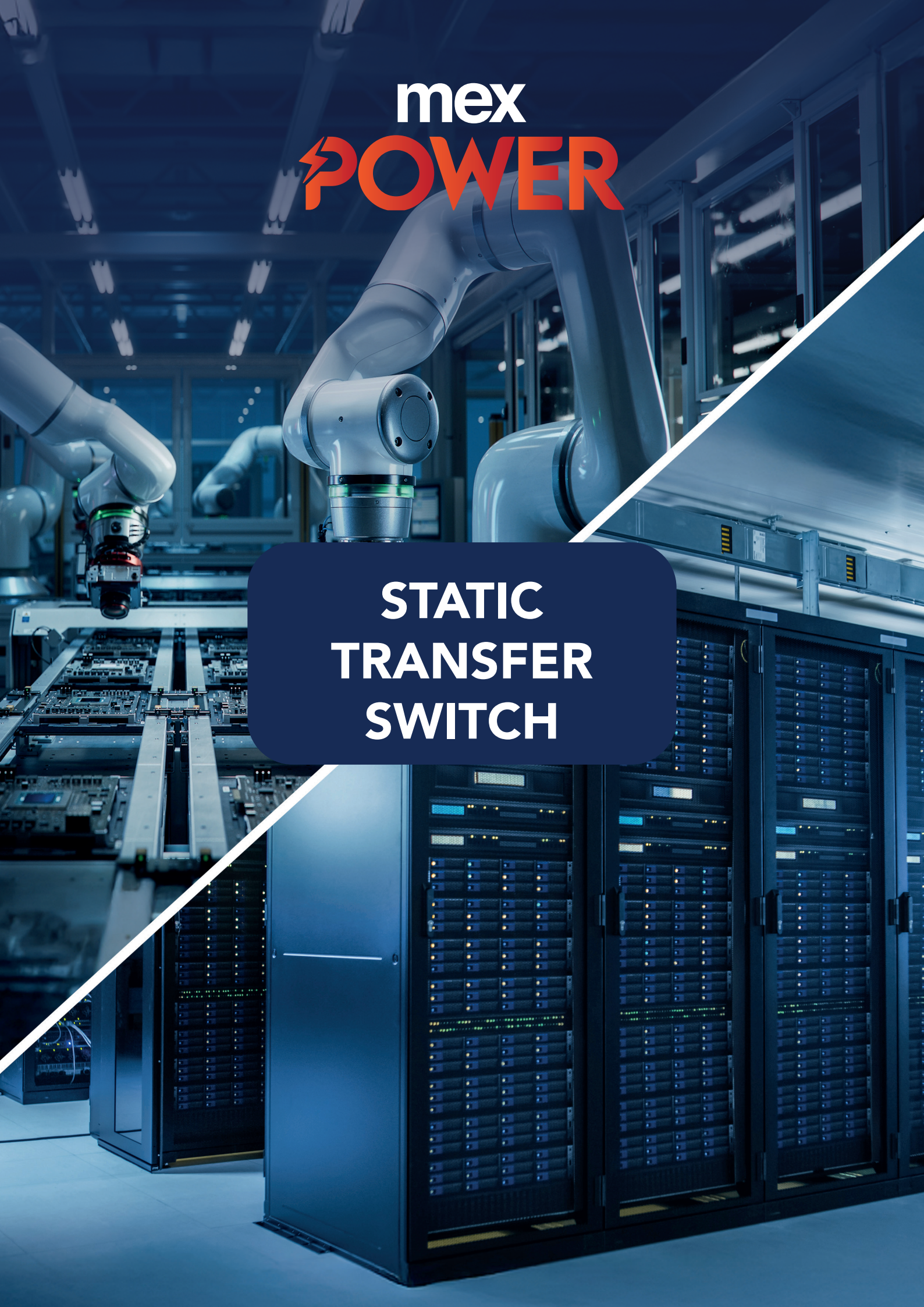
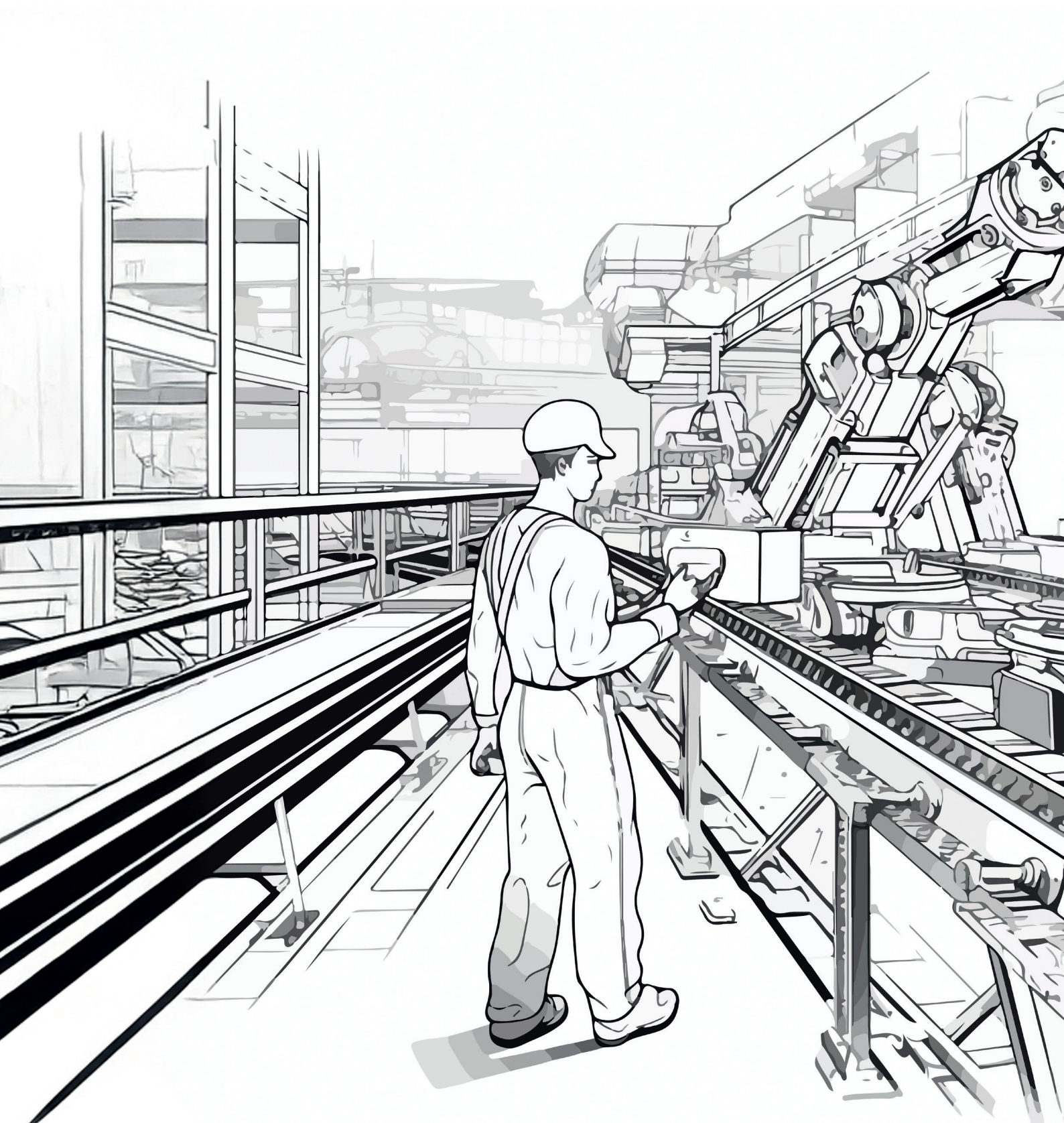


The background of the image is a composite of two industrial scenes. The upper portion shows a factory floor with several white robotic arms in various positions, some with green lights at their joints. The lower portion shows a server room with rows of black server racks. The racks are filled with electronic components, and many of the indicator lights are glowing yellow or orange. A white diagonal line separates the two scenes, running from the top right towards the bottom left.

mex
POWER

**STATIC
TRANSFER
SWITCH**



ABOUT

At Mex Technology, we aim to provide our customers with comprehensive solutions in the ever-evolving world of technology. Our areas of expertise include raised flooring systems, seismic flooring, power infrastructure, cooling systems, professional audio and video solutions, and essential data center accessories.

At Mex Technology, we place great importance on working with high-quality materials and utilizing the latest technologies. Customer satisfaction is our top priority; therefore, we provide full support at every stage of the project, delivering tailored solutions to our clients. With our innovative approach and commitment to quality, we develop modern and sustainable solutions for critical IT environments, continuing to make a difference in the industry.

By offering customized solutions that streamline workflows, Mex Technology is dedicated to shaping the technologies of the future with environmentally conscious and sustainable practices. Based in Istanbul, we serve customers across Turkey and abroad, aiming to build long-term business partnerships founded on customer satisfaction.



WHAT IS STS?

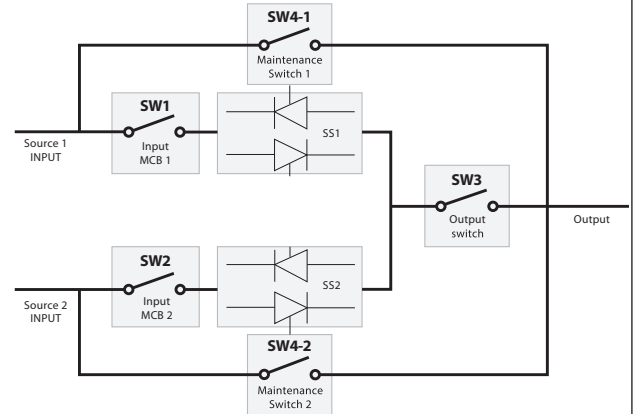


STATIC TRANSFER SWITCH

MEX STS used for uninterruptible switching between two independent AC power supplies provides the continuity of the load. Switching can also be done automatically when the primary source is out of tolerance or manually by an operator from the front panel/remote. When the primary source returns to normal, it takes the load back on without interruption.

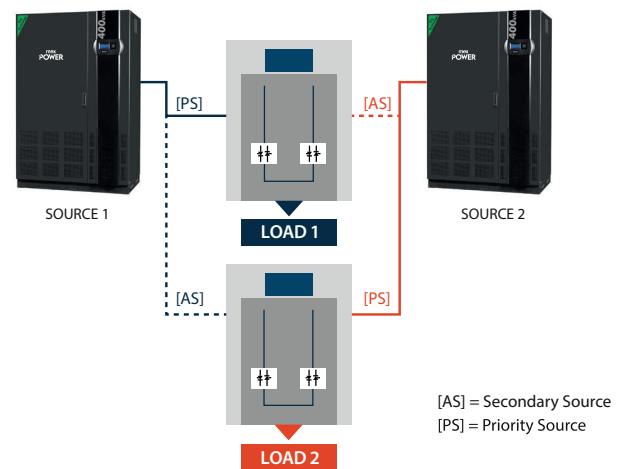
MEX STS provides maximum power supply for critical loads in industrial facilities and data centers, providing absolute protection against grid and load failures that may occur.

MEX STS may also provide protection against environmental disturbances; e.g. in case of a downstream short circuit, MEX STS disconnects the short circuit without affecting the other loads, thus improving the selectivity of protection devices.



ACCESSIBILITY-EASY SERVICE

- Easy front access for replacing moving components and parts
- Easily accessible power cable connections with bottom entry
- Boards placed in a dedicated area for quick diagnosis / replacement
- All parts subject to monitoring, maintenance and/or replacement



MODELS

MEX offers 1-phase 2-pole (STS2000), 3-phase 3-pole (STS3000) and 3-phase 4-pole Static Transfer Switches.

1-phase 2-pole STS2000 models have compact and rack type design, also offering hot-swappable option for 32A and 63A models. (STS2032 and STS 2063).

The STS is also available in three-pole and four-pole versions: the number of poles indicates whether the neutral conductor is switched together with the phases (four-pole, STS4000 models) or if the neutral line remains un-switched (three-pole, STS3000 models).

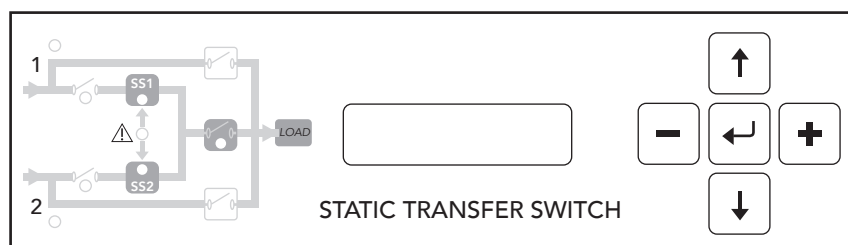
BREAK BEFORE MAKE TRANSFER

The transfer between the two input power sources is always performed using a Break-Before-Make (BBM) mode to guarantee complete separation between the two different sources, thus ensuring that they will never be connected in parallel.

In the four-pole models, the neutral conductor is switched using an overlapping method Make-Before-Break (MBB) to prevent any voltage imbalance that could damage the connected loads.

ADVANCED FEATURES

- Full digital control with microprocessor controlled structure, which provides fast and secure switching between power supplies, monitoring of all parameters on the LCD screen, continuous monitoring of the switching process.
- Convenient and multifunctional front panel and diagnostic codes.
- TCP / IP, SNMP, MODBUS and RS232 infrastructure for communication
- Very fast uninterrupted transfer in case of any failure (4ms- for synchronised sources)
- Programmable synchronized and unsynchronized transfers
- Redundant power supplies and circuitry for max. operation reliability.



LED'S FUNCTIONS

L1	Source 1 preferred	L5	Source 1 static switch (SS1) on
L2	Source 2 preferred	L6	Source 2 static switch (SS2) on
L3	Source 1 input	L7	Alarm monitoring
L4	Source 2 input	L8	Output ON/OFF

STS2000



INDUSTRI



MEDICAL



DATA CENTER



TRANSPORT



MALLS

STATIC TRANSFER SWITCH 1 PHASE, 2 POLES

COMPACT AND RACK TYPE DESIGN
MICROPROCESSOR CONTROL
OPTIONAL HOT-SWAP



RACK



SERVICE / TECH.
SUPPORT



ECO FRIENDLY



STS2000 1 phase, 2 pole static transfer switch transfers uninterruptedly critical loads to either of two independent AC power lines. The system monitors two AC inputs. If any of them goes out of the specified tolerance, it transfers the critical load to the other. The STS2000 improves power quality by reducing interference and short interruptions, ensuring continuous backup power availability.

GENERAL SPECIFICATIONS

- Full digital control with microprocessor controlled structure
- 2 AC inputs with 1 phase and neutral switching
- Easy installation and maintenance
- Compact and rack type design
- Wide input voltage range
- "Break Before Make" type transfer
- Very fast uninterrupted transfer even in case of any failure ($\leq 4\text{ms}$ - for synchronised sources)
- Selectable preferred source
- Fuse-free construction with a robust, high reliability SCR
- Digitally controlled system set points
- Programmable synchronized and unsynchronized transfers
- Isolation protection between sources with switched neutral
- Convenient and multifunctional front panel and diagnostic codes
- Transfer inhibit system over a certain current value
- Overload, over temperature and short circuit protections
- Convenience during maintenance and repair with Isolated Maintenance Bypass
- Remote monitoring of energy resources
- TCP / IP, SNMP, MODBUS and RS232 infrastructure for communication
- Dry-contact interface
- Internal cooling fans
- Optional external AC power supply socket outlet
- Optional SNMP adaptor

TECHNICAL SPECIFICATIONS

MODEL	STS2032		STS2063		STS2120	
Nominal current	32 A		63 A		120 A	
ELECTRICAL						
Input voltage	220/230/240 VAC 1P + N + G					
Input voltage range	180-264 VAC (Ph-N)					
Input frequency	50Hz. / 60Hz.					
Input frequency range (operation range adjustable)	46-54Hz (for 50Hz)					
	56-64Hz (for 60Hz)					
Transfer type	"Break before make"					
Transfer methods available	Automatic / Manual / Remote					
Transfer control	Synchronised					
	With adjustable delay (non-synchronised)					
	Zero current (non-synchronised)					
Transfer time	≤ 4 ms for synchronous sources					
	≤ 10 ms for non-synchronous sources					
Switching type	1 phase + Neutral switching (2-Poles)					
Output current crest factor	3:1					
Admissible overload	0-100% continuous					
	101-150% 1 minute					
	151-200% 10 seconds					
	> 200% 250 msec					
Protections	Output overload and short circuit protection, Overtemperature protection, Backfeed protection					
LCD panel and mimic	Standard					
Communication	RS232 standard, RS485 optional, SNMP optional					
TCP/IP connection	Optional					
Dry contacts	3 programmable relay outputs					
Breaking current capacity (SW1,SW2)	10kA					
ENVIRONMENTAL						
Cooling	Forced cooling (redundant fans)					
Cooling air direction	From front to rear					
Operating temperature	0°C - 40°C					
Storage temperature	-10°C up to +50°C					
Relative humidity	90% max. (non-condensing)					
Protection degree	IP20					
Standards	EN62310-1, EN62310-2					
Max. operation height	1000m. at nominal current rating					
Acoustic noise	< 50 dBA			< 52 dBA		
MECHANICAL						
Weight (kg)	12		13		20	
Dimensions	2U (19"rack), Width = 485mm, Depth = 545mm			3U (19"rack), Width = 485, Depth = 605mm		
	2U (19"rack), Width = 485mm, Depth = 590mm (hot-swap)			3U (19"rack), Width = 485, Depth = 645mm (hot-swap)		
Power cables connection	Clip-on terminals (on the rear panel)					

STS3000-4000



INDUSTRI



MEDICAL



DATA CENTER



TRANSPORT



MALLS

STATIC TRANSFER SWITCH 3 PHASE, 3&4 POLES

VERY FAST UNINTERRUPTED TRANSFER
ADVANCED COMMUNICATION
MICROPROCESSOR CONTROL
CHASSIS TYPE OPTION (*)



TOWER



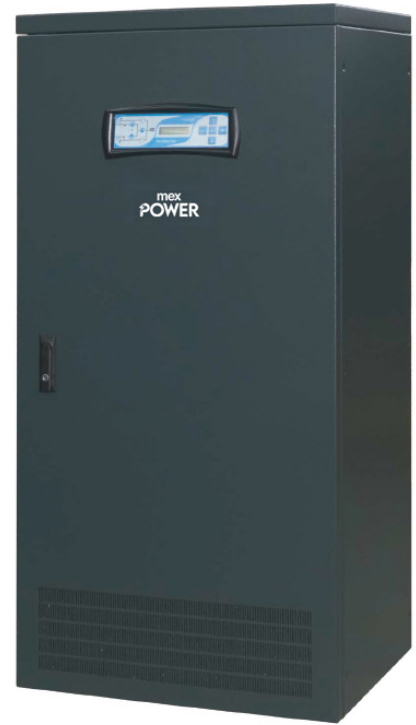
SERVICE / TECH.
SUPPORT



ECO FRIENDLY

STS3000-4000 3 phase, 3&4 pole static transfer switch transfers uninterruptedly critical loads to either of two independent AC power lines. The system monitors two AC inputs. If any of them goes out of the specified tolerance, it transfers the critical load to the other. By increasing the energy quality of the systems used with STS3000-4000, while reducing the effects of interference and short interruptions, a backup power system is gained.

(*) Some range of Mex three or four-pole STSs are also available in chassis version. They are mainly used as building blocks in power distribution systems. They do not have protection equipment and cabinet covers on the unit but they are mainly used for uninterruptible transfer between alternative AC power sources.



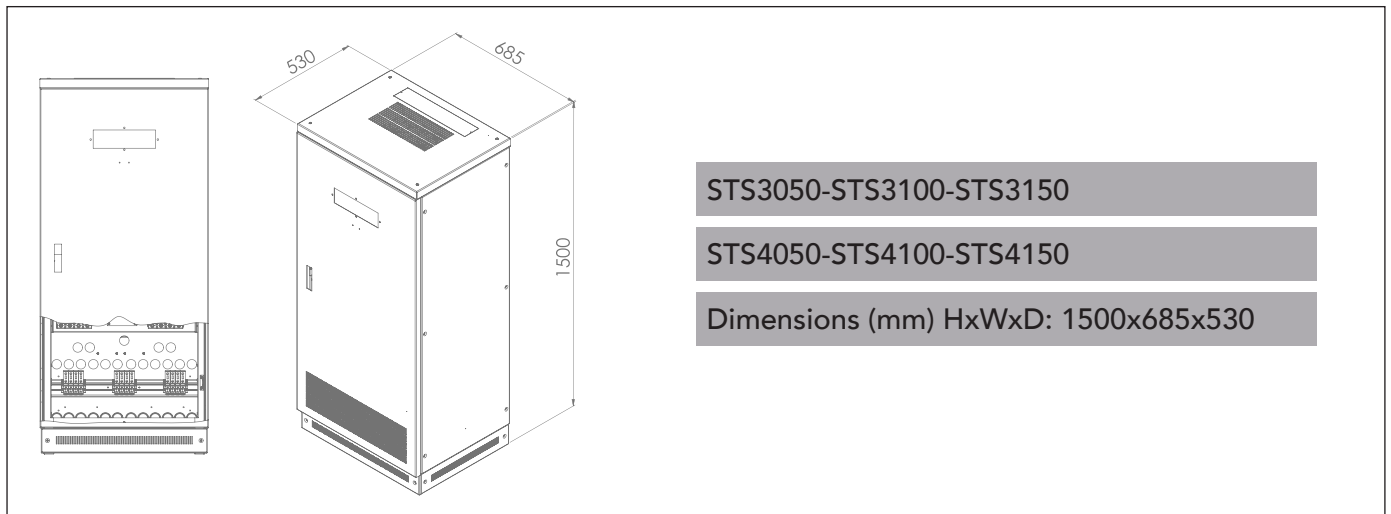
GENERAL SPECIFICATIONS

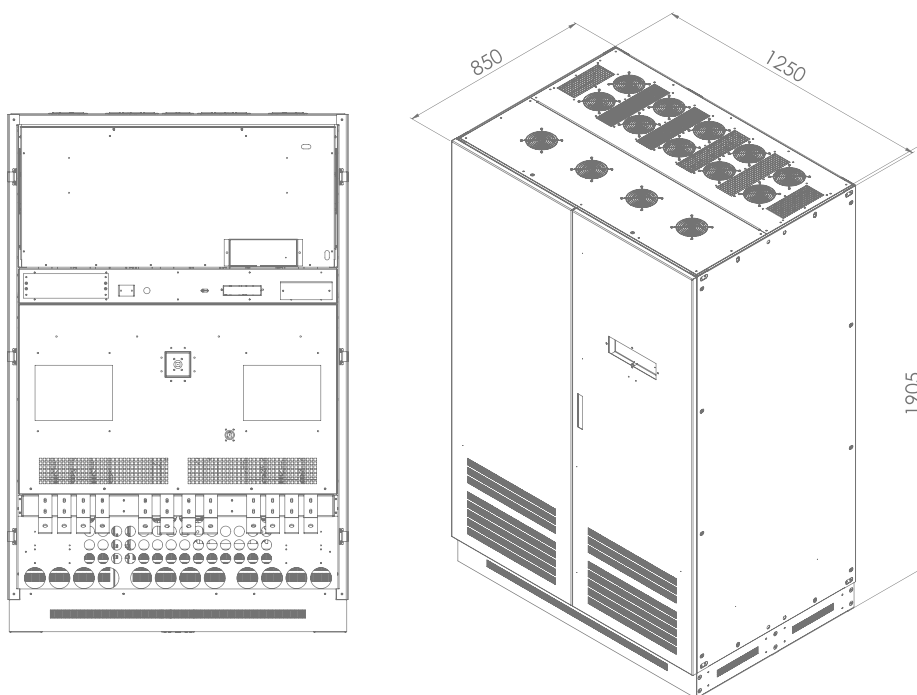
- Full digital control with microprocessor controlled structure
- 2 AC inputs with 3 phase switching
- Easy installation and maintenance
- Compact design
- Wide input voltage range
- "Break Before Make" type transfer
- Very fast uninterrupted transfer even in case of any failure
- ($\leq 4\text{ms}$ - for synchronised sources)
- Selectable preferred source
- Fuse-free construction with a robust, high reliability SCR
- Digitally controlled system set points
- Programmable synchronized and unsynchronized transfers
- Convenient and multifunctional front panel and diagnostic codes
- Transfer inhibit system over a certain current value
- Overload, over temperature and short circuit protections
- Convenience during maintenance and repair with Isolated Maintenance Bypass
- Remote monitoring of energy resources
- TCP / IP, SNMP, MODBUS and RS232 infrastructure for communication
- Dry-contact interface
- Internal cooling fans
- Optional external AC power supply socket outlet
- Optional SNMP adaptor

TECHNICAL SPECIFICATIONS

MODEL	STS3050	STS3100	STS3150	STS3200	STS3250	STS3300	STS3400	STS3600	STS30800	STS31000	STS31250
	STS4050	STS4100	STS4150	STS4200	STS4250	STS4300	STS4400	STS4600	STS40800	STS41000	STS41250
Nominal current	50 A	100 A	150 A	200 A	250 A	300 A	400 A	600 A	800 A	1000 A	1250A
ELECTRICAL											
Input voltage (Ph-Ph)	380/400/415 VAC 3P + N + G										
Input voltage tolerance	180-264 VAC (PH-N)										
Input frequency	50Hz. / 60Hz.										
Input frequency range	48-65Hz (upper and lower limits adjustable)										
Efficiency (at full load)	Up to 99.5%										
Input voltage THD	< 10%										
Transfer type	"Break before make"										
Transfer methods available	Automatic / Manual / Remote										
Transfer control	Synchronised										
	With adjustable delay (non-synchronised)										
	Zero current (non-synchronised)										
Transfer time	< 4 ms for synchronous sources										
	< 10 ms for non-synchronous sources										
Switching type	3-Pole: 3-phase switching / 4-Pole: 3-phase switching + Neutral switching										
Output current crest factor	3:1										
Admissible overload	0% - 100% continuous										
	101% - 150% 1 min.										
	151% - 200% 10 seconds										
	> 200% 250 msec										
Protections	Output overload and short circuit protection, Overtemperature protection, Backfeed protection, SCR fault protection										
LCD panel and mimic	Standard										
Communication	RS232 standard, RS485 optional, SNMP optional										
TCP/IP connection	Optional										
Dry contacts	4 programmable relay outputs										
Two serial ports	Optional										
Temperature sensor	Standard for internal cabinet temperature										
ENVIRONMENTAL											
Max. installation altitude	1000 m at nominal current rate, (- 1% derate 100m above 1000m)										
Cooling	Forced cooling (redundant fans)										
Operating temperature	0°C - 40°C										
Storage temperature	-10°C - +50°C										
Relative humidity	90% max. (non condensing)										
Protection degree	IP20										
Standards	EN 62310-1, EN 62310-2										
Acoustic noise	< 52 dBA			< 55 dBA				< 60 dBA	< 65 dBA		
PHYSICAL											
Net weight (STS3000)	139	145	165	195 (87)	205 (91)	230 (96)	240 (105)	340	520	565	610
Net weight (STS4000)	160	175	190	205 (90)	235 (95)	240 (100)	255 (110)	375	560	615	660
Dimensions (mm) HxWxD	1500x685x540			1770x685x590 (Chasis type 760x600x545mm)				1905x915x735	1905x1250x850		

STS CABINETS & DIMENSIONS



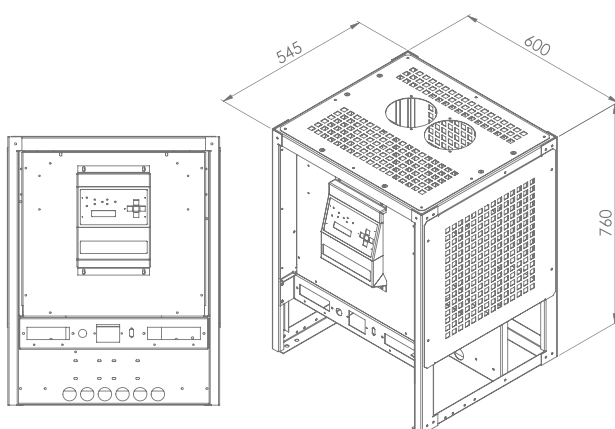


STS30800-STS31000-STS31250 / STS40800-STS41000-STS41250

Dimensions (mm) HxWxD: 1905x1250x850

OPTIONS AND ACCESSORIES

- | | |
|-------------------------------------|---|
| • Power Supply Back-up Kit | • Higher IP Rating Cabinets (IP31, IP42 etc.) |
| • Neutral Kit Option for STS3000 | • Top Entry Cabinets |
| • Remote Manual Transfer Switch Kit | • Seismic Kit |



STS3200R-STS3250R-STS3300R-STS3400R
STS4200R-STS4250R-STS4300R-STS4400R
CHASSIS TYPE STS

Dimensions (mm) HxWxD: 760x600x545

ACCESSORIES

I-COM SERIES UPS and STS ACCESSORIES

MODEL: RSX24

External RS232 to RS485 Converter for UPS and STS



- For long distance communication
- Bi-directional operation
- 4 wire RS485 output (Half & full duplex)

MODEL: RS-NET

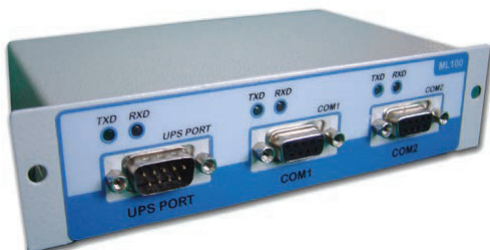
External RS232 to TCP/IP Converter for UPS and STS



- Monitoring & management over TCP/IP

MODEL: ML100

Serial Port Multiplexer for UPS and STS



- RS232 input port
- 2 x DB9 type socket RS232 outputs
- External or internal

MODEL: ML200

Internal Serial Port Multiplexer for UPS and STS



- RS232 input port
- DB9 type socket RS232 output
- RJ45 Ethernet output (TCP/IP)