



PRODUCT CATALOG

- ULTRA-LOW TRANSFER TIME
- HOT-SWAP POWER MODULE
- RACK / WALL / TOWER



SINGLE-PHASE & THREE-PHASE · 16 – 2000 A

EL STS SERIES STATIC TRANSFER SWITCH

Uninterrupted, automatic load transfer between two power sources

16 – 2000 A

Current range

≈ 5 ms

Transfer time (synchronized, 1/4 cycle)

> 99%

Efficiency

GENERAL FEATURES

ELSiPOWER EL STS series static transfer switches transfer the load between two independent power sources (for example two UPS units, or UPS and mains) automatically and without interruption within milliseconds. In data centers, hospitals and industrial plants with redundant power architectures, they keep critical loads supplied even if one source fails. Single-phase (16–1000 A) and three-phase (16–2000 A) versions in rack, wall-mount and tower cabinets suit every installation.

16 – 2000 A

Current range

≈ 5 msTransfer time
(synchronized, 1/4 cycle)**> 99%**

Efficiency

1P / 3PSingle- and three-
phase versions

KEY FEATURES

- **Ultra-low transfer time**
1/4-cycle (≈ 5 ms) transfer between synchronized sources keeps the load running.
- **Redundant power sources**
Redundant power architecture increases continuity and minimizes risk.
- **Easy maintenance & repair**
Hot-swappable power module (2 systems) and front access.
- **Overload withstand**
High overload capability for uninterrupted supply to your loads.

OPTIONS

- **Remote monitoring**
Via SNMP, Modbus TCP/IP, RS232 and RS485 protocols.
- **Cabinet heater**
Anti-condensation heater inside the cabinet.
- **Interface module**
Graphic touch-screen user interface (HMI).
- **Transducers**
Transducer support with 4–20 mA and 0–10 V outputs.
- **Configurable parameters**
Flexible system settings for each application.
- **Cabinet options**
Rack and tower cabinet versions.

APPLICATIONS



Data centers



Hospitals



Telecommunications



Industrial processes



Banking & finance

Transportation
infrastructure

TECHNICAL SPECIFICATIONS

MODEL	STS-1	STS-3
BASIC FEATURES		
Input phase	Single-phase	Three-phase
Current	16 A – 1000 A	16 A – 2000 A
Number of poles	1-pole (neutral not switched) / 2-pole (neutral switched)	3-pole (neutral not switched) / 4-pole (neutral switched)
INPUT & OUTPUT PARAMETERS		
Voltage	110 / 115 / 120 VAC · 220 / 230 / 240 VAC (option: others)	190 / 200 / 210 VAC · 380 / 400 / 415 VAC · 440 / 460 / 660 VAC
Voltage range	± 20% (transfer outside range, adjustable)	
Frequency / range	50 / 60 Hz · 45–65 Hz	
Efficiency	> 99%	
Transfer options	Automatic / manual	
Transfer time	1/4 cycle (synchronized sources, ≈ 5 ms at 50 Hz) · 1/2 cycle (non-synchronized)	
Crest factor	3:1	
PHYSICAL FEATURES		
Cabinet type	Rack / wall-mount / tower (depending on current)	
Cabinet color	RAL 7032, RAL 7035 (option: others)	
Protection class	IP20 (option: IP21 – IP55)	
Cooling / cable entry	Natural or fan-assisted (depending on power) · bottom (option: top, rear, side)	
Maintenance bypass	MCB / MCCB / CAM switch for each source	
ENVIRONMENT & COMMUNICATION		
Operating / storage temperature	-10 – 50 °C / -25 – 70 °C	
Relative humidity	0 – 95% (non-condensing)	
Standard communication	Modbus RTU (via RS232) · option: RS485, Modbus TCP/IP, SNMP, IEC 61850	
Interface	LED / LCD panel (with mimic diagram) · option: touch screen	
Languages	Turkish, English, German, Dutch, Portuguese, Spanish, Russian	
PROTECTIONS & ADDITIONAL FEATURES		
Input / output protection	MCB or MCCB for source inputs and output; over-temperature and output breaker open warnings; power source failure, emergency stop	
Isolation (optional)	Primary / secondary isolation transformer	
Measurement displays (optional)	Input voltage and current, output voltage and current	
Additional protection (optional)	Fan failure, SCR fuse failure, external block, parallel fault	
Others (optional)	SPD (surge arrester), cabinet heater, cabinet lighting, service socket	
Standards	EN 62310-1 (general & safety), EN 62310-2 (EMC), EN 62310-3 (performance & test)	

* Product models, images and technical specifications are subject to change without prior notice.



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