

STATYS™ PS Series

Static Transfer Switch with Small Effective Footprint, Redundant design and safe maintainability features

from 400A to 1200A



Applications

- > Mission Critical
- > IT / Data Centers
- > Commercial & Industrial
- > Healthcare
- > Finance
- > Utility

Strong Points

- > Zero side and rear clearance requirement
- > Low Mean Time to Repair
- > Safe Maintainability
- > Fully Redundant Design
- > Patented Swappable STS
- > Power Module

Conformity to standards

- > UL 1008s Listed



Functions

The STATYS PS Series (Models: 400A, 600A, 800A, 1000A, 1200A) offers a range of high performing static transfer switches (STS).

The STATYS PS is designed to protect critical and sensitive appliances in IT, telecom and industrial applications. Use this system to protect critical enterprise servers, storage systems, networking equipment, telecommunications systems, diagnostic/medical devices and more.

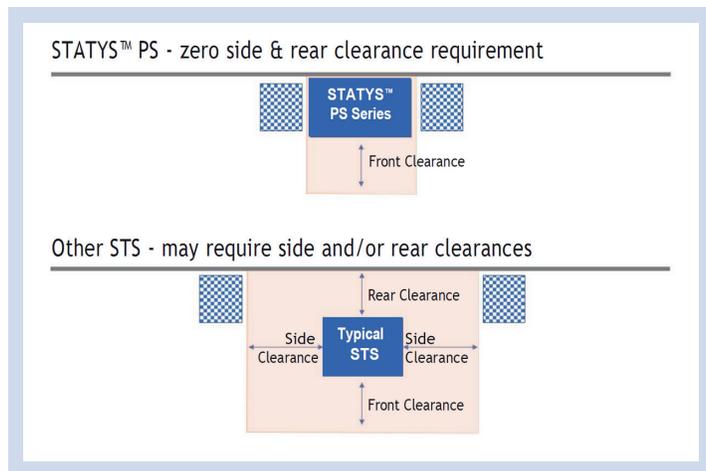
STATYS PS has been designed to minimize overall footprint, since only front access is required for installation, operation and maintenance. It is customizable with top or bottom cable connection with no extra cabinet.

A key feature of the unit is that all key components have been designed to be easily replaceable, minimizing downtime and Mean Time To Repair (MTTR).

Advantages

Innovative Design

- Front-only access for installation, operation & service
- Zero side & rear clearance requirement, minimizes effective footprint
- Designed for easy field replaceability of pre-tested modules
- Unique rack-out and replace of entire STS power module
- 30 minutes Power Module replacement for only one operator, without specific toll (low MTTR)
- Pluggable, molded case switches
- IR view port options for effective preventative maintenance
- Packaging designed for pallet truck handling
- Advanced Transformer Switching Management (ATSM)
- Proprietary software algorithms manages inrush currents



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Redundant Design

- Redundant control system using dual microprocessor PCBs
- Triple redundant power supplies
- Redundant SCR drivers
- Real-time SCR fault detection
- Partitioning of functions to mitigate fault propagation
- Robust internal field communication bus
- Internal monitoring of sensors to ensure maximum system reliability
- Flexible digital control capacity
- Capacity of transfer between unsynchronized sources

Standard Features

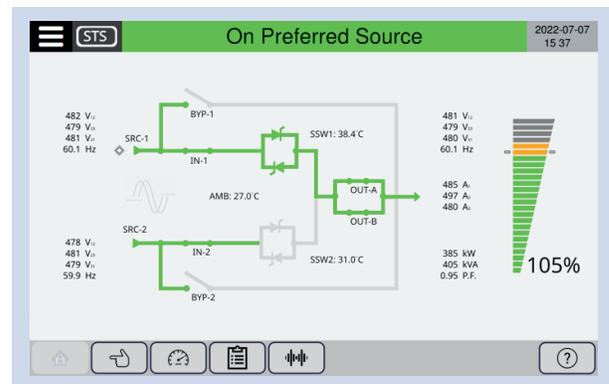
- 3-poles, 3 wires configuration
- 3-poles + neutral configuration (up to 600A)
- 4 poles (switched neutral) configuration (up to 600A)
- User settable transfer modes to match load requirements
- Hi-res colour touch screen with real-time mimic diagram
- Waveform capture
- Up to 100kA interrupt capacity (UL rated)
- Press pack SCR construction
- Hot-swappable power modules

Communication

- Modbus TCP
- I/O dry contact interfaces
- Expandable communication slots
- Software setup tools for user configuration

Safe Maintainability

- Pluggable, molded case switches, 100% rated
- Kirk-key interlock system
- Available redundant output molded case switches
- HMI guided bypass procedure
- Hot-swappable fans
- Hot-swappable power supplies
- Cold-pluggable power module



HMI in Normal Use: 'On Preferred Source' with all breakers closed except BYP-1 AND 2

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Technical Specifications

Installation Parameters

Model A		400 4P	600A 4P	400	600	800	1000	1200
Dimensions	width	61 in. (1547 mm)	61 in. (1547 mm)	48 in. (1219 mm)	48 in. (1219 mm)	65 in. (1651 mm)	63 in. (1600 mm)	63 in. (1600 mm)
	Depth	40 in. (10004 mm)	40 in. (10004 mm)	31 in. (787 mm)	31 in. (787 mm)	35 in. (889 mm)	36 in. (914 mm)	36 in. (914 mm)
	Height	84 in. (2132 mm)	84 in. (2132 mm)	83 in. (2108 mm)	83 in. (2108 mm)	78 in. (19821 mm)	86 in. (2184 mm)	86 in. (2184 mm)

Electrical Characteristics - Operating

Rated Voltage	208/380/400/415/480/600V up to 800A 380/400/415/480/600V up to 1200A	
RMS Voltage Tolerance	+ / - 10% (user settable)	
Transient Tolerance	+ / - 25% (user settable)	
Rated Frequency	50/60Hz	
Frequency Tolerance	+ / - 5Hz (user settable)	
Number of Phase	3ph+N+G	3ph + G
Number of Poles Switching	3 or 4-pole switching	3-pole switching
Power Factor	No Restrictions (-0 to 1.0 to +0)	
Overload Capacity	110% for 60 minutes 125% for 30 minutes 150% for 2 minutes	
Operating Temperature	0 to +40°C (32 to + 104°F)	
Storage Temperature	-25 to +70°C (-13 to +158°F)	
Maximum Relative Humidity (non-condensing)	95%	
Maximum Altitude without Derating	1000m	
Enclosure Type	UL Type 1	
Efficiency	99% @ full load	



Static Transfer Switch Model 800A