

# STATYS

Redundant design for power availability and site maintainability  
from 32 to 1800 A

Single-phase and  
three-phase STS



GAMME SBI A

## The solution for

- > Finance, banking and insurance
- > Healthcare sector
- > Telecom & Broadcasting
- > Industry
- > Power generation plants
- > Transport

## STATYS provides

- High reliability - internal redundant design to ensure service continuity.
- Flexibility and adaptability to various types of applications.
- Compact design: saves up to 40% of valuable space.
- Easy and secured maintenance.
- Operational security and ease of use Remote data access in real time and from any location.
- Full support and service.

## Static Transfer Switch: user benefits

Supplied by two independent alternate sources, STATYS increases the overall electrical infrastructure availability during abnormal events and programmed maintenance.

- Provides redundant power supply to mission critical loads to increase global uptime of the supplied system.
- Increases the power supply availability by choosing the best power supply quality.
- Provides plant segmentation and prevents fault propagation.
- Allows easy extension and easy infrastructure design, ensuring high availability of the power supply to critical applications.
- Facilitates and secures the maintenance or the modifications of the overall electrical installation (source, distribution, switchboard) while the load is kept supplied.

STATYS also provides protection against:

- Main power source outage.
- Failures in the upstream power distribution system.
- Failures caused by faulty equipment supplied by the same source.
- Operator errors.

## Flexibility

STATYS offers a wide range of three-phase systems that suits all types of applications and power supply systems.

Dual or single cord servers, linear or non-linear loads, IT or electromechanics are just some of the load types that STATYS can supply. Wherever a smart power source is needed, whether for existing or new electrical plants, STATYS can be easily installed and efficiently supply the load.

It is available in:

- 2 wires and 2 poles switching, to be connected between phase/neutral or phase/phase.
- 3 wires arrangement without neutral,
  - for reduced cable costs,
  - for local zoning of the applications by using insulating transformers,
- 4 wires three-phase arrangement with neutral, with or without neutral pole switching,

STATYS offers:

- Flexible digital control capacity that can adapt to any operational or electrical environment conditions,
- Capability to manage synchronised and non-synchronised sources according to load specificity,
- Advanced Transformer Switching Management (ATSM). If the upstream network has no distributed neutral cable, two upstream transformers or one downstream transformer can be added to create a neutral reference point at the output. For the downstream solution, STATYS, thanks to ATSM, correctly manages the switching to limit inrush current and avoid the risk of spurious breakers.

## High reliability - Internal redundant design

Main features:

- Redundant control system using double microprocessor control boards.
- Dual redundant power supplies for control boards.
- Individual control board with redundant power supply for each SCR path.
- Redundant cooling with fan failure monitoring.
- Real-time SCR fault sensing.
- Separation of main functions to prevent internal fault propagation.
- Robust internal field communication bus.
- Internal monitoring of sensors to ensure maximum system reliability.

## Compact design

- Small footprint and compact units.
- Adjacent or back to back mounting.
- Integrable chassis version for optimal implementation into switchboards.
- Front access for easy maintenance.
- Compact Hot Swap 19" rack system.

## Standard features

- Smart commutation system configurable according to the load.
- Synchronised and non-synchronised sources compatibility (configurable synchronisation tolerance and switching management).
- Fuse-free or fuse-protected design.
- Output fault current sensing.
- Internal CAN Bus.
- Double maintenance bypass.
- Neutral oversizing for non-linear loads compatibility.
- Embedded Inputs, output and maintenance bypass switches (cabinet version).

## Standard communication features

- Ethernet network connection (WEB/SNMP/eMail/MODBUS TCP).
- Dry-contact interface.
- Flexible Com Slots.
- LCD or Graphic Mimic Panel.
- Full digital configuration and setting.

## Options

- Additional dry contacts interface board.
- MODBUS RTU.
- PROFIBUS interface.
- Automatic maintenance bypass interlock.
- Voltage adaptation.

## Remote monitoring

- 24/7 real-time remote data access.
- Wide choice of communication protocols for remote monitoring and easy integration in your BMS / SCADA systems.
- LINK-UPS, remote monitoring service that connects your STS to your Critical Power specialist 24/7.

## Technical data

STATYS	19" rack - hot swap				Cabinet - integrable chassis (OEM)										
Rating [A]	32	63	63	100	200	300	400	600	800	1000	1250	1400	1600	1800	
<b>ELECTRICAL SPECIFICATIONS</b>															
Rated voltage	120-127/220 240/254 V				208-220/380-415/440 V										
Voltage tolerance	± 10% (configurable)														
Frequency	50 Hz or 60 Hz (± 5 Hz (configurable))														
Number of phases	ph+N or ph-ph (+ PE)				3ph+N or 3ph (+ PE)										
Number of poles switching	2-pole switching				3 or 4-pole switching										
Maintenance bypass (cabinet version)	interlocked and secured														
Overload	150 % for 2 minutes - 110 % for 60 minutes														
Efficiency	99 %														
Admissible power factor	no restrictions														
<b>ENVIRONMENT</b>															
Operating ambient temperature	0-40 °C														
Relative humidity	95%														
Maximum altitude	1000 m a.s.l. without derating														
Acoustic level at 1 m (ISO 3746)	<45 dBA				≤ 60 dBA				≤ 84 dBA						
<b>STANDARDS</b>															
Safety	IEC 62310, IEC 60529, AS 62310, AS 60529														
EMC	C2 category (IEC 62310-2, AS 62310.2)														
Product declaration	CE, RCM (E2376)														

## Dimensions

Model		Range (A)	Width (mm)	Depth (mm)	Height (mm)
1 phase	19" Rack	32 - 63	483 (19")	747	89 (2U)
		63 - 100	483 (19")	648	400 (9U)
3 phases	Integrable Chassis (OEM)	200	400	586	765
		300 - 400	600	586	765
		600	800	586	765
		800 - 1000	1000	950 <sup>(1)</sup>	1930
		1250 - 1800	910	815	1955
	Cabinet	200	500	600 <sup>(1)</sup>	1930
		300 - 400	700	600 <sup>(1)</sup>	1930
		600	900	600 <sup>(1)</sup>	1930
		800 - 1000	1400	950 <sup>(1)</sup>	1930
		1250 - 1600	2010	815	1955

(1) Depth does not include handles (+40 mm)