



# STATYS

from 32 to 4000 A

protection for your critical applications

Single-phase and  
three-phase STS



## The solution for

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

## STATYS provides

- High reliability - internal redundant design. Flexibility and adaptability to various types of applications.
- Compact design: saves up to 40% of valuable space.
- 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:

- provides redundant power supply to mission critical loads,
- increases the power supply availability by choosing the best power supply quality
- prevents fault propagation,
- allows easy extension and easy infrastructure design, ensuring high availability of the power supply to critical applications,
- facilitates installation and maintenance procedures.

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:

- 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,
- 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

STATYS increases the overall availability of the system during abnormal events and programmed maintenance. It allows plant segmentation and intelligent fault management, therefore increasing the global uptime of the supplied system.

Other features include:

- 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,
- 24/7/365 real-time remote monitoring.

## Compact design

STATYS has a very compact design reducing significantly its operational footprint. It saves highly valuable floor space and reduces space requirement in the PDU.

STATYS has been designed to save space and for easy maintenance:

- small footprint and compact units,
- adjacent or back to back mounting,
- front access for easy maintenance procedures,
- compact Hot Swap 19" rack system (the smallest on the market).

## Remote data access in real time and from any location

Its advanced communication capabilities make STATYS easily integrable in the existing monitoring and control infrastructures.

STATYS fulfils LAN connectivity prerequisites and plug and play modular communication Com Slot for:

- remote connection for monitoring
- remote maintenance
- customer's Building Management System (BMS) integration

## Standard features

- Smart commutation system configurable according to the load.
- Fuse-free or fuse-protected design.
- Output fault sensing.
- Internal CAN Bus.
- Double maintenance bypass.
- Neutral oversizing for non-linear loads compatibility

## Standard communication features

- Ethernet network connection.
- I/O dry contacts interfaces.
- Flexible Com Slots.
- LCD and Graphic Mimic Panel.
- Full digital configuration and setting.

## Options

- Additional dry contacts interface board.
- RS232/485 serial port interface board.
- PROFIBUS interface.
- Devicenet interface.
- Automatic maintenance bypass interlock.
- Voltage adaptation.

## Technical data

STATYS	19" rack - hot swap				Cabinet - integrable chassis (OEM)					
Size [A]	32	63	63	100	200	300	400	600	from 800 to 4000	
<b>ELECTRICAL SPECIFICATIONS</b>										
Rated voltage	120-127 / 220-240 / 254 V				208-220 / 380-415 / 440 V					
Voltage tolerance	± 10%									
Number of phases	ph+N or ph-ph (+ PE)				3ph+N or 3ph (+ PE)					
Rated frequency	50 Hz or 60 Hz									
Frequency tolerance	± 5 Hz (configurable)									
Number of poles switching	2-pole switching				3 or 4-pole switching					
Neutral system	compatible with all earthing systems									
Maintenance bypass	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									
Cooling	forced ventilation									
Acoustic level at 1 m (ISO 3746)	<45 dBA				≤ 60 dBA					contact us
<b>MECHANICAL SPECIFICATIONS</b>										
19" rack - Dimensions W x D x H	483x747x89 mm		483x648x400 mm		-	-	-	-	-	
19" rack - Weight	26 kg		58 kg		-	-	-	-	-	
Cabinet - Dimensions W x D x H	-	-	-	-	500x600x1930 mm <sup>(2)</sup>	700x600x1930 mm <sup>(2)</sup>	900x600x1930 mm <sup>(2)</sup>	contact us		
Cabinet - Weight	-	-	-	-	195 kg	270 kg	345 kg	contact us		
Integrable chassis (OEM) - Dimensions W x D x H	-	-	-	-	400x586x765 mm	600x586x765 mm	800x586x765 mm	contact us		
Integrable chassis (OEM) - Weight	-	-	-	-	70 kg	105 kg	130 kg	contact us		
Degree of protection	IP31				IP20					
Colours	Grey semi gloss									
<b>STANDARDS</b>										
Performance and safety	IEC 62310, EN 50022, IEC 60364-4, IEC 60950, IEC 60529, IEC 60439-1									
EMC	C2 category (IEC 62310-2)									
Protection class	CB or PC class									

(1) Depth does not include handles (+40 mm). Total height corresponds to 3U for fixed part and 6U for the Hot Swap module. - (2) Depth does not include handles (+40 mm).