STATYS

Redundant design for power availability and site maintainability
from 32 to 4000 A

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,
- 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

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

Options

- Additional dry contacts interface board.
- MODBUS RTU.
- PROFIBUS 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	800	1000	up to 4000
ELECTRICAL SPECIFICATIONS											
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										
ENVIRONMENT											
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
MECHANICAL SPECIFICATIONS											
19" rack - Dimensions W x D x H	483 x 747 x 89 mm(1)		483 x 648 x 400 mm(1)		-	-	-	-	-	-	-
19" rack - Weight	26 kg		58 kg		-	-	-	-	-	-	-
Cabinet - Dimensions W x D x H	-	-	-	-	500 x 600 x 1930 mm(2)	700 x 600 x 1930 mm(2)		900 x 600 x 1930 mm(2)	1400 x 950 x 1930 mm		contact us
Cabinet - Weight	-	-	-	-	195 kg	270 kg		345 kg	685 kg		contact us
Integrable chassis (OEM) - Dimensions W x D x H	-	-	-	-	400 x 586 x 765 mm	600 x 586 x 765 mm		800 x 586 x 765 mm	1000 x 950 x 1930 mm		contact us
Integrable chassis (OEM) - Weight	-	-	-	-	70 kg	105 kg		130 kg	495 kg		contact us
Degree of protection	IP30				IP20						
Colours	Grey semi gloss										
STANDARDS											
Performance and safety	IEC 62310, EN 50022, IEC 60364-4, IEC 60950, IEC 60529, IEC 60439-1 AS 62310, AS 1939, AS 60529, AS 3439.1										
EMC	C2 category (IEC 62310-2, AS 62310.2)										
Protection class	CB or PC class										
Product declaration	CE, RCM (E2376)										

(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).