

STATYS

STS from 32 to 1800 A

Protection for your critical applications



40 YEARS
OF
UPS
SUCCESS

 **socomec**
Innovative Power Solutions **UPS**

Single and
three-phase
STS

STATYS

from 32 to 1800 A

protection for your critical applications



Your protection
for

- > Finance, Banking and Insurance
- > Healthcare sector
- > Telecom & Broadcasting
- > Industry
- > Power generation plants
- > Transport



More than 25 years of specialist experience

- SOCOMEC UPS has more than 25 years of experience in designing, producing and customising Static Transfer Systems. A leader in multiple-source and multi bus architecture, SOCOMEC has installed thousands of STS systems (LTM) in many sectors that have demonstrated their adaptability and high reliability.
- Investing more than 10% of turnover in R&D, SOCOMEC has always incorporated new technologies to ensure optimum quality and performance. **STATYS**, the latest design in STS incorporates the most advanced technologies combined with long experience to guarantee seamless and reliable power transfers.

STATYS provides



High reliability - Internal redundant design



Operational security & Ease of use



Flexibility and adaptability to various types of applications



Remote data access in real time and from any location



Compact design: saves up to 40% of valuable space



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.



APFL148_A





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 system. The SOCOMEC UPS **STATYS** range has been designed with the latest technology that provides internal fault tolerance.

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.



Flexibility – Adaptability to various types of applications

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.

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

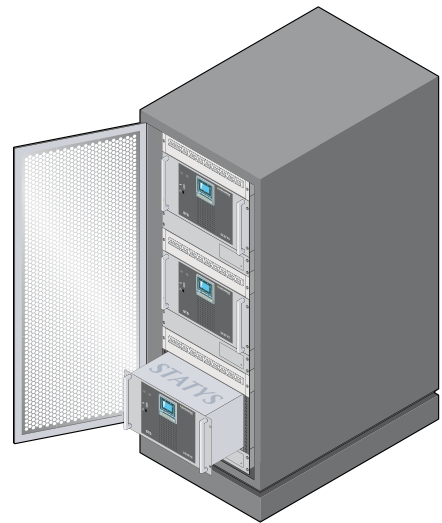
It is available in:

- 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,

for every load, linear or non-linear, and with every power factor.

STATYS offers:

- flexible digital control capacity that can adapt to any operational or electrical environment conditions,
- advanced Transformer Switching Management (ATSM).



STATYS_037_A



Operational security & Ease of use

STATYS is equipped with user-friendly interfaces and commands providing secured operating controls:

- easy to read display with intuitive navigation,
- front access to all information (measurements, status and alarms),
 - acoustic notification (buzzer) of abnormal events,
 - password protection capability,

- automatically controlled interlock, preventing operator errors.

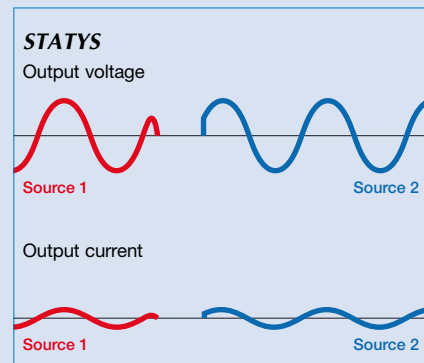
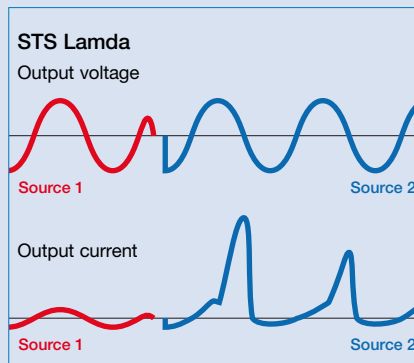
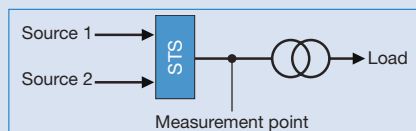
Its ease of use will dramatically reduce operator errors.



STATYS_041_A

Advanced Transformer Switching Management

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.





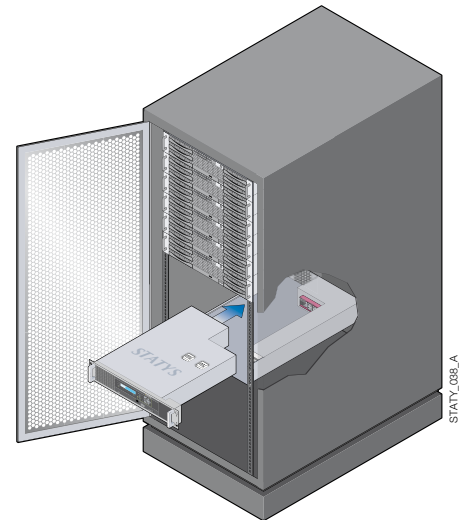
Compact design: saves up to 40% of valuable space

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

Its high efficiency, its integrable chassis and its minimal footprint make **STATYS** the best STS to be embedded into a PDU.



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 fulfills prerequisites for:

- LAN connectivity and the customer's Building Management System (BMS) integration,
- remote connection for monitoring and maintenance,
- plug and play modular communication ComSlot (interfaces for flexible upgrading),
- programmable output dry contacts and insulated inputs,
- serial communication ports.



Full support and service

As with all equipment, the devices that supply power to your critical applications require regular maintenance to continue providing secure operation.

Preventive maintenance helps avoid malfunctions and extends the life of your equipment as well as improving the MTBF (Mean Time Between Failures) of the installation.

Real-time monitoring means prompt reaction to abnormal events for minimum MTTR (Mean Time To Repair).

SOCOMECS UPS is on hand for the customer during the entire lifetime of the equipment and even more:

- skilled technicians available for telephone consultancy and site inspection, technical and specification documentation, worldwide seminars and follow-up meetings,

- during a full commissioning service SOCOMECS technicians configure **STATYS** to be integrated with required monitoring systems,

- **T.SERVICE** provides 24/7/365 information concerning the device's status and working parameters to facility managers and SOCOMECS technicians via GSM (modem and SMS) or e-mail, for a prompt reaction for every event.

User-friendly operator interface



70 % of site failures are due to human error

An easy-to-use control panel providing access to all controls in just a few clicks, or capable of showing the correct procedure for every manoeuvre with simple pictograms significantly reduces exposure to human error and increases the availability of the power supply.

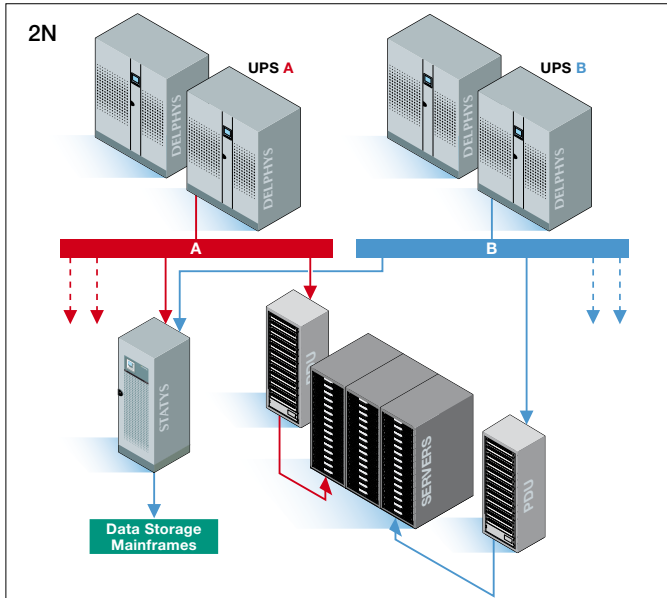
In addition, the communication capability of **STATYS** allows prompt notification of abnormal events for the right measures to be taken.

The user-friendly interface interacts with the operator via:

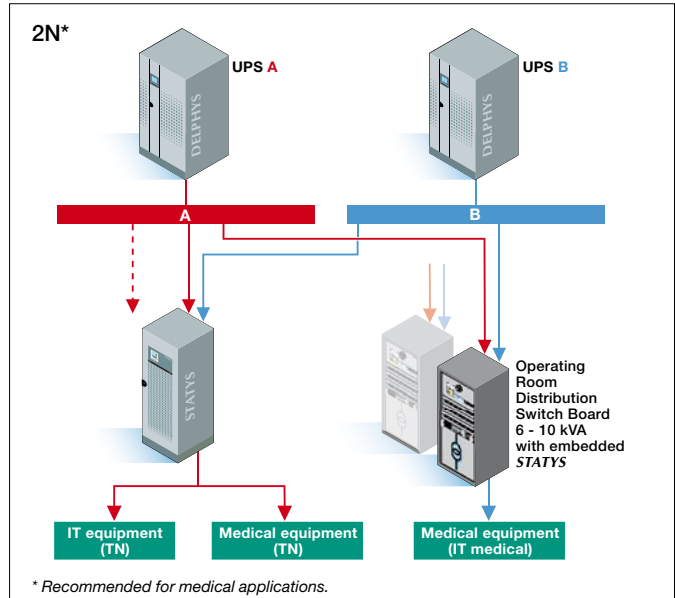
- high definition colour graphic display with intuitive navigation,
- mimic diagrams providing status/alarm and clear operator guide lines.

techinfo

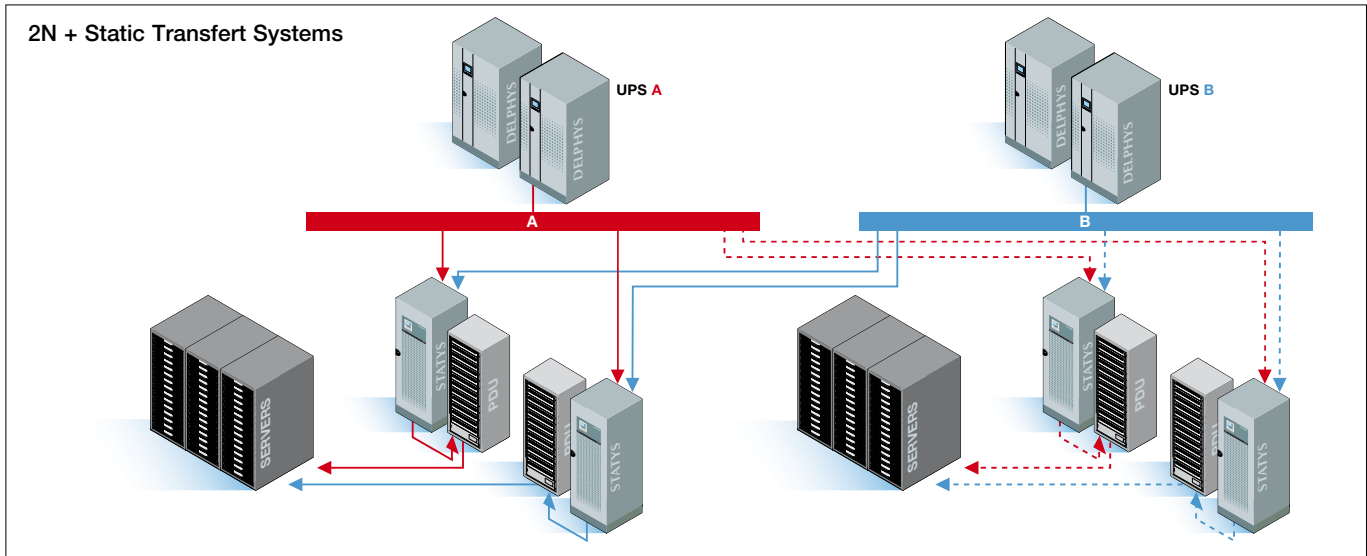
Architecture overviews



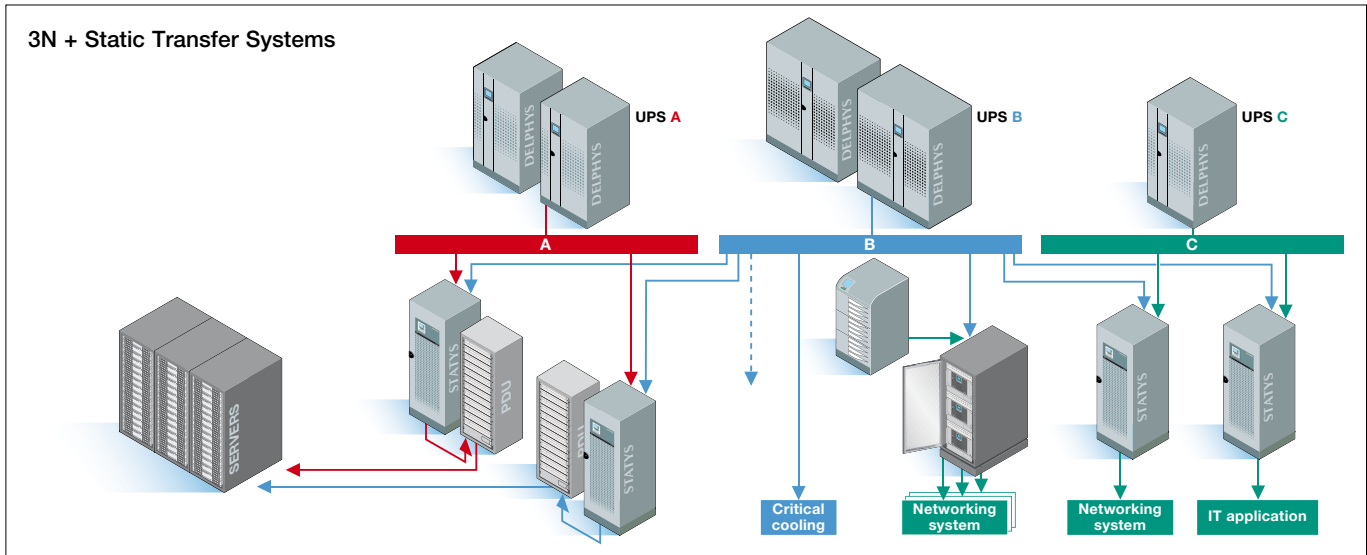
STATY_032_A_GB



STATY_033_A_GB



STATY_034_A_GB



STATY_035_A_GB

Standard features

- Redundant Microcontroller board
- Individual SCR control board with redundant local power supply
- Dual redundant electronic power supply
- Comprehensive SCR fault sensing
- Smart commutation system configurable according to the load
- Redundant cooling
- Fuse-free or fuse-protected design
- Output fault sensing
- Internal CAN Bus
- Hot Swap 19-inch rack
- Double Maintenance bypass
- LCD and Graphical Mimic Panel
- Password control
- Full load parameter measurements
- Ethernet Network connection
- Front accessible components
- Full digital configuration and setting
- I/O Dry Contacts interfaces
- Flexible Com Slots.

Options

- Additional Dry Contacts interface board
- RS232/485 serial port interface board
- Profibus interface
- Devicenet interface
- Automatic Maintenance Bypass interlock
- Voltage adaptation
- TVSS.

19" rack - Hot Swap

SIZE [A]	32	63	63	100
Voltage [V]	120 -127 / 220 - 240 / 254 (±10%)		208 - 220 / 380 - 415 / 440 (±10%)	
Number of phases	ph+N or ph-ph (+ PE)		3ph+N or 3ph (+ PE)	
Frequency [Hz]	50 or 60 (configurable ±5%)			
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	110% for 60 minutes - 150% for 2 minutes			
Efficiency	99%			
Admissible power factor	No restrictions			

Cabinet - Integrable chassis (OEM)

SIZE [A]	200	300	400	600	800	1200	1500	1800
Voltage [V]	208 - 220 / 380 - 415 / 440 (±10%)							
Number of phases	3ph+N (+ PE) or 3ph (+ PE)							
Frequency [Hz]	50 or 60 (configurable ±5%)							
Number of poles switching	3 or 4-pole switching							
Neutral system	Compatible with all earthing systems							
Maintenance bypass	Interlocked and secured							
Overload	110% for 60 minutes - 150% for 2 minutes							
Efficiency	99%							
Admissible power factor	No restrictions							

Dimensions and weight

SIZE [A]	1ph 3ph	32	63	63	100	200	300	400	600	800	1200	1500	1800
19" RACK													
WxDxH [mm]		483x674x89 (19" x674 x2U)**	483x648x400 (19" x648 x9U)*										
Weight [kg]		23	38										
CABINET													
WxDxH [mm]						500x600 x1930**	700x600x1930**		900x600x1930**				Contact us
Weight [kg]						195	270		345				Contact us
INTEGRABLE CHASSIS (OEM)													
WxDxH [mm]						400x586 x765	600x586x765		800x586x765				Contact us
Weight [kg]						70	105		130				Contact us
ENVIRONMENT													
Operating ambient temperature	0 - 40 °C												
Degree of protection	IP 31						IP 20						
Relative humidity	95%												
Maximum altitude	1000 m a.s.l. without derating												
Cooling	Forced ventilation												
Sound pressure level	< 45 dB(A)						60 dB(A)						Contact us
STANDARDS													
Performance and safety	IEC 62310, EN 50022, IEC 60364-4, IEC 60950, IEC 60529, IEC 60439-1												
Protection class	CB or PC class												
EMC class	C2 category (IEC 62310-2)												

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

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