

STATYS HC

Static transfer system for operating theatres and intensive care units
from 63 to 100 A



The solution for

> Healthcare

Strong points

- > Robust design
- > Unique downstream transformer management
- > Power continuity
- > High reliability

Advantages

NON-STOP

19"



HOT-SWAP

Conformity to standards

- > IEC 62310
- > IEC 60364-7-710
- > NF C15-211

Expert services

Our expert services ensure your system's highest availability:

- > Commissioning
- > On-site intervention
- > Preventive maintenance visits
- > 24-hour call out and rapid on-site repairs
- > Maintenance packages
- > Training



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Function

STATYS HC exists as a single-phase or three-phase static transfer system. Supplied by two independent sources it ensures the power continuity of medical locations by transferring to the available source without interruption. STATYS HC has been especially designed to comply with the applicable criteria of the IEC 60364-7-710 and the NFC 15-211 standards.

Advantages

Robust design

- Specifically designed for use in medical locations.
- Compliant with the applicable criteria of the IEC 60364-7-710 and the NFC 15-211 standards.
- Dedicated overload management ensuring power continuity in the event of an overload.
- Overload information available through BMS and local alarms.
- Robust SCR topology ensuring high overload and short-circuit withstand.
- Simplified sizing of the upstream protection without compromising the selectivity.
- Integrated bypass switch for periodic tests without risking the load supply.

Unique downstream transformer management

- Limiting start up and transfers transient currents.
- Prevent spurious tripping of the upstream protection.
- Advanced Transformer Switching Management (ATSM).

Power continuity

- A redundant power supply to mission critical loads in order to ensure their availability even in the case of abnormal events.
- Main power source outages.
- Failures in the upstream power distribution system.
- Failures caused by faulty equipment supplied by the same source.
- Operator errors.
- Increased power supply availability by choosing the best power supply quality.
- Load segregation preventing fault propagation between the applications.
- An embedded bypass switch ensuring power availability during critical medical operations.

High reliability

- 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.
- Integrated «auto-hold» feature to ensure load continuity in case of internal failure.
- 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.

Hot-swappable design

- Compact Hot Swap 19" rack system.
- Integrated double maintenance bypass, front accessible and secured against human error.
- Faster maintenance with fully extractable power brick.
- No electronics within the fixed part.

General characteristics

- Robust design compliant with operating theatre standards.
- Unique downstream transformer management.
- Power continuity.
- High reliability - internal redundant design.

Standard communication features

- Combined LED and LCD graphic display for easy visualisation of the powerpath.
- Slots for communication options.
- Dry-contact interface (configurable voltage-free contacts).
- Ethernet interface for STS monitoring via WEB pages.
- Full digital configuration and settings.

Communication options

- Additional dry-contact interface (configurable voltage-free contacts).
- MODBUS TCP.
- MODBUS RTU RS485.
- REMOTE VIEW PRO supervision software.

Technical data

STATYS HC	19" rack - hot swap -1ph	19" rack - hot swap -3ph	
Rating [A]	63	63	100
ELECTRICAL SPECIFICATIONS			
Rated voltage	120-127/220 240/254 V	208-220/380-415/ 440 V	
Voltage tolerance	± 10% (configurable)		
Non-synchronized sources management	configurable up to +/- 180°		
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		
ENVIRONMENT			
Operating ambient temperature	from 0°C up to 40°C		
Relative humidity	95%		
Maximum altitude	1000 m a.s.l. without derating		
Acoustic level at 1 m (ISO 3746)	<45 dBA		
STANDARDS			
Safety	IEC 62310, IEC 60529		
EMC	C2 /C3 category (IEC 62310-2)		
Product declaration	CE, RCM (E2376), UKCA		

Dimensions

Model	Range (A)	Width (mm)	Depth (mm)	Height (mm)
1 phase	63	483 (19")	747	89 (2U)
3 phases	63 - 100	483 (19")	648	400 (9U)