

Secure Power for Guaranteed Business Continuity

Mission-critical applications require a highly available power supply. The **SOCOMECS** UPS Static Transfer System (STS), **STATYS**, provides the highest availability values of permanent power supply, essential for service continuity.

STATYS protects against:

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

User benefits of Static Transfer Systems:

- Provides redundant power supply to mission critical loads
- Increases the power availability by choosing the best quality supply
- Prevents fault propagation
- Optimises the use of the power sources during load transients
- Facilitates infrastructure maintenance without application shutdown
- Allows easy extension and infrastructure design of the architecture

In addition, STATYS gives you the following benefits:

- Minimal heat dissipation
- High short circuit capability
- Clear and easy to use human interface
- Full internal redundancy for maximum fault tolerance
- Fast and easy front access to every internal component
- Independent source management
- Wide range of communication protocols management
- Full compliance to the latest standards and CBEMA / ITIC recommendations for critical loads

Flexibility and adaptability, STATYS is designed to provide:

- Redundancy from two alternative and independent power sources
- Instantaneous manual and automatic transfer
- Selection of preferred source by the operator
- Programmable re-transfer after an automatic transfer
- Programmable automatic restart
- All pole switching possibilities to keep source fully separated providing compatibility with all types of earthing systems
- Easy operating thanks to a comprehensive control panel with mimic diagram and display
- Fast output fault current sensing, preventing the transfer of the faulty equipment to the opposite circuit. Disturbances such as short-circuits on any other equipment can be avoided
- Double interlocked maintenance bypass
- Comprehensive communication facility, SNMP, JBUS/MODBUS, HTTP
- Ethernet connection to a LAN connection for remote monitoring by the customer (MODBUS TCP)
- Tele-maintenance connection

Transfers: Switching mode

Depending on the source state, the transfers can be either synchronous or asynchronous. The switching operation is extremely fast and secured and is a "break before make" transfer. The two sources are never cross connected, thus avoiding any risk of overlapping of power sources during transfer.

Backfeed protection

To be compliant with the standard IEC 62310-1, STATYS is fitted with a "backfeed" protection system to protect against possible voltage backfeed to one source (integrated for single phase).

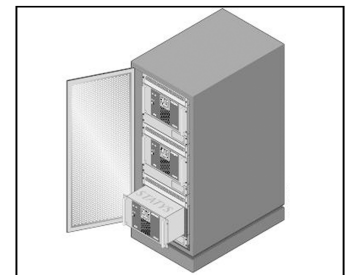
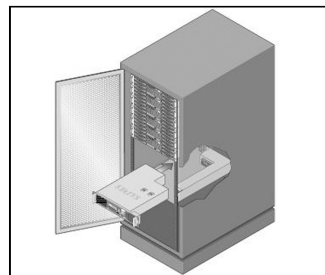
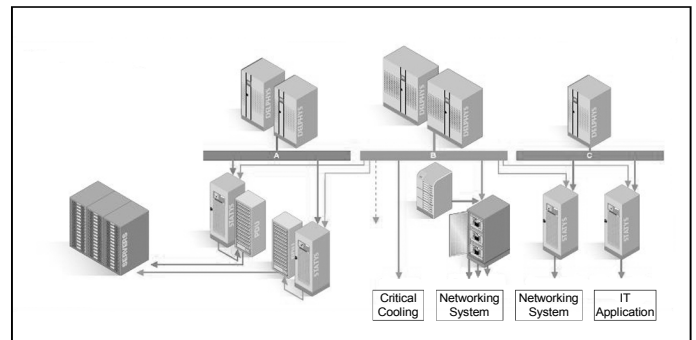
STATYS

- Redundant micro-controller board
- Dual redundant electronic power
- Independent SCR - with redundant local power supply

Operating Specifications

Rating	32	63	100	200	300	400	600	800	1200	1500	1800
Integration	19 Inch Rack		Cabinet Integrated Or Integratable Chassis (OEM)								
Maintenance By pass	Integrated and secured										
Environment											
Working temperatures	0 to 40 [°C]										
Storage temperatures	-25 to 70 [°C]										
50 [°C] degrading	-10% of Rated Current [A]										
Degree of protection	IP31		IP 20		(IP3x - IP5x and IPx2 optional)						
Relative Humidity [%]	Up to 90% condensation-free										
Altitude [m]	1000 m a.s.l. @ full load										
Ventilation	Redundant forced cooling										
Acoustic noise @ 1m Standard	45 [dB(A)]		60 [dB(A)]		Contact us						
Performance & safety	IEC 62310, EN 50022, IEC 60364-4, IEC 60950, IEC 60529, IEC 60439-1										
Protection class	CB or PC class (on demand)										
EMC class	C2 category										

Rack and Cabinet integrated only; For OEM Chassis: dedicated inputs are available for the external switches management.



Rack/Cabinet & OEM Chassis versions

Rating	32A	63A	63A	100A	200	300	400	600	800	1200	1500	1800
Distribution	Single-Phase			Three-Phase								
Integration	19 Inch Rack / Hot-swap electronics						Cabinet Integrated / PDU Integratable (OEM)					
Rated Voltage [V]	120-127V / 220-240V / 254V						208-220V / 380-415V / 440V					
RMS Voltage range							±10% of Rated Voltage (Standard setting)					
Short Transients tolerance							±25% of Rated Voltage (Standard setting)					
Rated Frequency [Hz]	50 or 60 Hz						50 or 60 Hz					
Input Frequency range	±2 Hz (configurable up to ±5Hz)											
Nb Phases	(Ph + N) or (Ph-Ph) + PE				(3ph + N) or (3ph) + PE							
Nb Poles switched	2-poles switching				3-poles or 4-poles switching							
Neutral systems	Compatible with all Earth Connection Systems (IT-TT-TNS-TNC)											
Maintenance By pass	Integrated and secured						Integrated and secured (Cabinet integrated only)					
Transfer time [ms]	3ms typical (break before make)											
Admissible power factor	No restriction (leading or lagging)											
Losses (W) *	94	161	330	540	850	1130	1530	2230				
Max neutral current	32A	63A	160A	160A	315	630	630	1000				
Load Crest Factor	3.5						<3.5					

* @ 100% linear with 415V inputs / * @ 100% linear with 415V inputs on PDU Integral version (as per 62310-3 Standard)

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