



## Hyperion Static Transfer Switch (STS) 16 - 2500 Amp Technical Specifications

GENERAL		
Phase	Single-Phase	Three-Phase
Technology	Thyristor Controlled Fully Rated, Hokey Puck Type	
Transfer Type	Make Before Break	
INPUT		
AC Voltage	220/230/240 Vac (or 110/120/127 Vac)	380/400/415 Vac (or 208/480/600 Vac)
Voltage Tolerance	±15%	
Frequency	50 Hz / 60 Hz ±10%	
Type	2 Poles P + N	3-Poles: 3 P / 4-Poles: 3 P + N
THDv	≤5%	
Input Protection	MCB, Overload Protection, Over Voltage, Phase Sequence Protection	
OUTPUT		
DC Voltage	220/230/240 Vac (or 110/120/127 Vac)	380/400/415 Vac (or 208/480/600 Vac)
Output Accuracy	±1%	
Current Adjustment	0 - 100% Digitally Adjustable	
Voltage Adjustment	0 - 100% Digitally Adjustable	
Source Selection	Digitally Adjustable	
Synchronous Transfer	< 5 ms ( ¼ cycle at 50 Hz)	
Controlled Transfer	0 ms	
Distribution	IT, TT, TNS, TNC	
Power Supply	Redundant Internal Power Supply	
Maintenance Bypass	MCB	
Operation Timer	Digitally Adjustable (1 sec accuracy)	
Overload Operation	100% - 125% load: 10 min, 125% - 150% load: 1 min, > 150% load: 3 sec	
Output Protection	Over Current / Over Temp / Short Circuit / Source High-Low	
Efficiency	>99%	
CONTROL PANEL		
Display	4x20 LCD (10" touchscreen is optional)	
Displayed Parameters	Source Selection, Preferred Source, Alarms Adjust, Password	
Displayed Units	AC/DC Voltage, Frequency, Input/Output Current Operation Time (S:M:H)	
Event Log	192 Events Recorded	
COMMUNICATION		
Standard	Dry Contact Card (up to 10 adjustable relays), RS485 MODBUS	
Optional	SNMP, CANBUS, Profibus, IEC 61850, RS232, USB	
PC Connection	PC Software	
SAFETY and STANDARDS		
Over Voltage	IEEE 587 4500 A, 40kA Surge Arrestor	
Interference Reduction	Class B	
Standards	IEC 62040-1-2-3, EN 50091-1 (Security), EN 50091-2 (EMC), ISO 9001, CE	
ENVIRONMENT		
Heat and Humidity	-10 C° / + 60 C°, 0 - 90% (non-condensing)	
Noise Level	Less than 50 dB	
Protection Level	IP34 (higher protection levels are available on request)	
Cooling	Forced Air Cooling with Fans or Natural Air Cooling	
MTBF	250 000 hrs	

### Highlights

- Standalone or 19" Rack Cabinet
- LCD Screen
- Thyristor Controlled
- Uninterruptible Transfer
- Synchron/Asynchron Transfer
- RS232 and SNMP Communication
- Source Priority Selection
- Automatic and Manual Transfer
- Status and Alarm Messages
- Internal Maintenance Bypass
- Easy Maintenance
- High Efficiency
- Transfer to the Second Source  
Less Than 5 ms
- Calibration of Measurements from  
Front Panel
- Double or More Source Selection
- 2 Years Warranty

### General Features

Hyperion STS allows instantaneous transfer of power sources to the load. If one power source fails, the STS switches to the back-up power source so fast that the load never recognizes the transfer.

Smart control and high reliability DSP technology provides uninterrupted transfer between sources. LCD display and adjustable output voltage, source selection makes the control easier.

Three-phase models can be manufactured as 3 poles or 4 poles. 19" rack mounted or standalone cabinets are available.