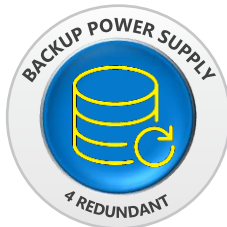
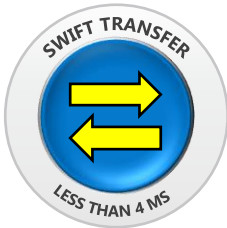


# STATIC TRANSFER SWITCH

**EPC** Energy  
Power  
Conversion  
*Tailors of the Industry*

# STS SERIES



# STATIC TRANSFER SWITCH

TELECOM

MARINE

ITS TRAFFIC

MILITARY

POWER PLANTS

OIL & GAS

RAILWAY

ALTERNATIVE



## WHY US?

- **ULTRA LOW TRANSFER TIME**

<4ms(60Hz), <5ms(50Hz) transfer time assures you will never get interrupted.

- **EASY MAINTENANCE & REPAIR**

Hot Swap power module (2U Systems) and front access always allows easy repair and maintenance

- **BACK-UP POWER SUPPLY(S)**

Power supply is the most frequently malfunctioned component in electronic devices.  
Up to x4 power supply assures minimum 20 years of design life.

- **OVERLOAD RESISTANCE**

To provide uninterrupted supply for your loads, you should have high resistance for overloads.  
With up to 200% overload Capacity, our STS will switch on every condition. (300% optional)

## FEATURES

- Smart Control with DSP Tech
- Thyristor controlled switching
- Automatic and Manual Transfer
- Fuseless (No interruption)
- Alarm adjustable dry contacts
- ModBus Protocol - RS232, RS485
- Re-Transfer delay and inhibit
- Automatic start & fault recovery
- Smart fault diagnosing
- Full system measurement (V, A and Hz etc.)
- Visual and audible alarms
- AC Fail, Over temp and Short circuit protection

## OPTIONS

- Analog gauges (V, A, Hz meters)
- Thyristor failure detection
- Transducers (4-20mA and 0-10V)
- Enclosure heating
- Fan Failure Monitoring
- Remote Monitoring



# STATIC TRANSFER SWITCH

## 3 PHASE

MODEL	STS350	STS363	STS3100	STS3150	STS3200	STS300	STS3400	STS3600	STS3800
CURRENT (Nominal)	50A	63A	100A	150A	200A	300A	400A	600A	800A
Voltage (Ph-Ph)	200/227/380/400/415/440/460/600VAC 3Ph + N + PE								
Voltage Range	± 15% (Transfer when out of range)								
Frequency	50/60Hz								
Frequency Range	45-65Hz (Transfer when out of range, adjustable)								
Efficiency	>99%								
Transfer Type	Break before make								
Transfer Options	Automatic / Manual / Remote								
Transfer Time	<4ms (Sync) & ~10ms (Unsync)								
Switching Topology	3 Pole (w/o neutral breaking) or 4 Pole (w neutral Breaking)								
Crest Factor	3:1								
Overload	100-110% continuous / 100-125% 10mins / 125%-150% 1min / 150-200% 10sec / >200% 250msec								
Protections	Overload, Short curcuit, Over Temperature, Backfeed, SCR Fault Alarm, Unsync protection, Bypass protection (Interlock)								
Communication	RS232, Dry Contact (Standard) - RS485, TCP/IP (Optional), SNMP (Optional)								
<b>ENVIRONMENTAL</b>									
Cooling	Fan Forced (Dual Redundant), Natural Cooling (Optional)								
Operational Temperature	0°C - 50°C (Temperature measurement)								
Storage Temperature	-10°C - 70°C								
Relative Humidity	<90% (non-condensing)								
Ingress Protection	IP20, IP21 (Standard), up to IP66 (Optional)								
Standards	EN62310-1, EN62310-2, EN62310-3								
<b>MECHANICAL</b>									
Net Weight (kg)	Advise to EPC								
Dimensions (mm) WxDxH	500*450*1000mm		600*600*1300mm		750*700*1600mm		1000/800*800*2100mm		
Alternative Dimension	19', 5U / WM		WM		Advise to EPC				

## 1 PHASE

MODEL	STS1016	STS1032	STS1050	STS1063	STS1100	STS1150
CURRENT (Nominal)	16A	32A	50A	63A	100A	150A
Voltage (Ph-Ph)	110/127/208/220/230/240/265VAC 1Ph + N + PE					
Voltage Range	± 20% (Transfer when out of range)					
Frequency	50/60Hz					
Frequency Range	45-65Hz (Transfer when out of range, adjustable)					
Efficiency	>99%					
Transfer Type	Break before make					
Transfer Options	Automatic / Manual / Remote					
Transfer Time	<4ms (Sync) & ~10ms (Unsync)					
Switching Topology	1 Pole (w/o neutral breaking) or 2 Pole (w neutral Breaking)					
Crest Factor	3:1					
Overload	100-110% continuous / 100-125% 10mins / 125%-150% 1min / 150-200% 10sec / >200% 250msec					
Protections	Overload, Short curcuit, Over Temperature, Backfeed, SCR Fault Alarm, Unsync protection, Bypass protection (Interlock)					
Communication	RS232, Dry Contact (Standard) - RS485, TCP/IP (Optional), SNMP (Optional)					
<b>ENVIRONMENTAL</b>						
Cooling	Natural Cooling					
Operational Temperature	0°C - 50°C					
Storage Temperature	-10°C - 70°C					
Relative Humidity	<90% (non-condensing)					
Ingress Protection	IP20, IP21 (Standard), up to IP66 (Optional)					
Standards	EN62310-1, EN62310-2, EN62310-3					
<b>MECHANICAL</b>						
Net Weight (kg)	3	6	6	8	Advise to EPC	
Dimensions (mm) WxDxH	19', 1U		19', 2U		500*450*1000mm	
Alternative Dimension	19', 2U / WM		19', 5U / WM			Advise