

STS1000 Series Static Transfer Switch(110Vac/220Vac)



SINGLE PHASE STS (16A~125A)

STS SCR Static Transfer Switch

The STS static transfer switch is a product specially designed for key equipment requiring uninterrupted power supply, and a contactless electronic switch device designed to realize mutual backup and quick switchover between two AC power supplies. It allows automatic or manual switchover, and the switchover time is <4ms so that continuous power supply to key equipment can be ensured.



Main Feature

Switchover between two power supplies

It realizes reliable redundant power supply for key equipment.

Automatic selection of better supply

It can select automatically a power supply of higher quality based on parameter setting.

Short switchover time

Switchover time <4ms.

High reliability & Digital control

Using 32-bit DSP digital detection and control technology, it is characterized by strong anti-interference ability, high operational speed, high intelligence, and high control precision.

High adaptability ,The power supply may be any two AC power supplies with sinusoidal output.

Monitoring management

The indicator lamp panel can give out sound and light alarm upon fault, and RS485 communication and fault dry contact are provided.

Protection function

It has protection against overtemperature, overvoltage, over-frequency, output over-current, and overload (shutdown and automatic restart after 5 minutes in case of overload).



Electrical standards

EMC

EN 55032: 2015+A11: 2020

EN 55035: 2017+A11: 2020

EN IEC 61000-3-2: 2019

LVD

EN IEC 62368- 1: 2020+A11: 2020



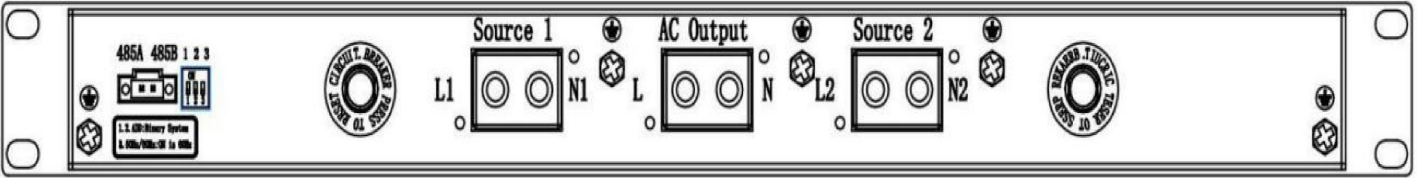
General Specifications

Model									
Single Cut Type	BWT-ST516S	BWT-ST525S	BWT-ST532S	BWT-ST540S	BWT-ST545S	BWT-ST5063SM	BWT-ST5080SM	BWT-ST5100SM	BWT-ST5125SM
Double Cut Type	BWT-ST516D	BWT-ST525D	BWT-ST532D	BWT-ST540D	BWT-ST545D	BWT-ST5063DM	BWT-ST5080DM	BWT-ST5100DM	BWT-ST5125DM
Phase	Single Phase								
Output Current	16A	25A	32A	40A	45A	63A	80A	100A	125A
MAX Allowable Current	18A	28A	35A	45A	50A	69A	88A	110A	125A
AC Input									
AC Input Voltage	110Vac/220Vac								
Input Voltage Range	90Vac-130Vac @ 110Vac;190Vac-260Vac @ 220Vac								
Valid Working Voltage	±12%, backlash±5V								
Frequency	60Hz/50Hz(set in factory)								
Power off Voltage	110V:≤55Vac or ≥135Vac,backlash±5V 220V:≤190Vac or ≥260Vac,backlash±5V								
Power off Frequency	60Hz: ≤57Hz or ≥63Hz, ±0.2Hz 50Hz: ≤45Hz or ≥65Hz, ±0.2Hz								
Switch Time	< 4ms								
Overload Capacity	load current = 110%,operating continuously load current > 110%,immediately shut off								

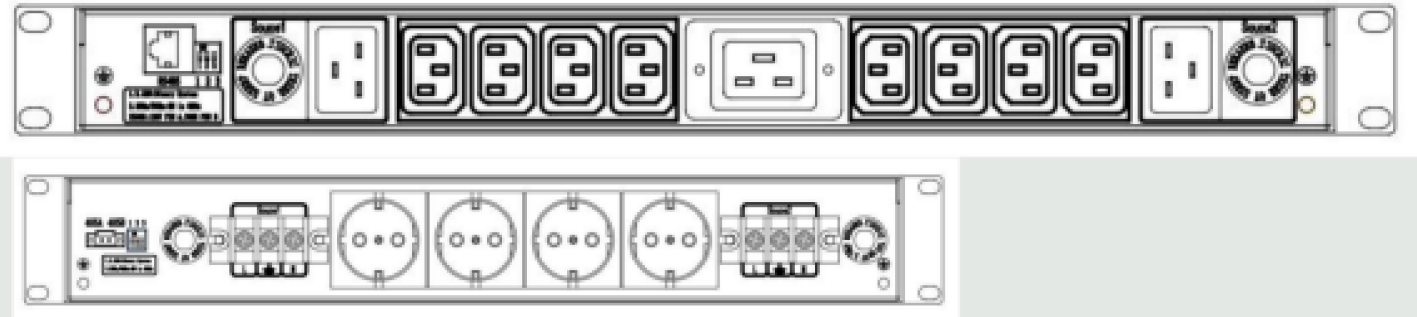
Working Environment		
Dielectric Strength	2000Vac/10mA/60s	
Humidity	0%-90%, no moisture condensation	
Work Temperature	-25°C~50°C	
Storage Temperature	-40°C~70°C	
Noise (1m)	<55 dB	
Operating Altitude	≤2500m	
Communication		
Communication	Modbus RS485	
Measurement		
Size (mm)	482*343*44.5(1U)	482*338*88(2U)
Packing Size (mm)	538*432*132	545*435*175
Net Weight(kg) N.W	6.5	8.5
Gross Weight(kg) G.W	7.5	9.5

Note: All above information shall be changed without prior notice,Bwitt reserves the right to explain and update the latest information. Welcome contact BWITT for the latest information

Connection Design



Standard Design



More design as you need.....

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Company Web



UPS Redundancy Systems:

Hybrid Power Systems:

Critical Infrastructure Fields:

When one power supply is abnormal, STS automatically switches to another power supply to ensure that the load is continuously powered by the other power supply.

EN 62310-2:2007

EN IEC 61000-3-2:2019/A1:2021
EN IEC 62368-1:2024AMD.11:2024
EN 61000-3-3:2013AMD.1:2019
+ AMD.2:2021

◆ Adopting fully digital control with strong anti-interference ability and fast operating speed:

- ◆ Switching time $\leq 4\text{ms}$, high reliability;
- ◆ Strong overload capacity, able to withstand full load startup;
- ◆ With input over-voltage and under-voltage, over-current and other protection functions;
- ◆ LCD display screen and LED indicator lights show status information of STS;

Model								
3 Phase common neutral	BWT-STS32SM3	BWT-STS40SM3	BWT-STS45SM3	BWT-STS50SM3	BWT-STS63SM3	BWT-STS80SM3	BWT-STS100SM3	BWT-STS125SM3
3 Phase not common neutral	BWT-STS32DM3	BWT-STS40DM3	BWT-STS45DM3	BWT-STS50DM3	BWT-STS063DM3	BWT-STS080DM3	BWT-STS100DM3	BWT-STS125DM3
Phase	3 Phase							
Output Current	32A	40A	45A	50A	63A	80A	100A	125A
MAX Allowable Current	35A	44A	49A	55A	69A	88A	110A	125A
AC Input								
AC Input Voltage	AC 380V±15% (Other voltages can be customized)							
Input Voltage Range	342Vac~418Vac @380Vac							
Valid Working Voltage	±10%, backlash±5V							
Frequency	50Hz/60Hz (set in factory)							
Power off Voltage	380V : ≤342Vac or ≥418Vac,backlash±5V							
Power off Frequency	60Hz: ≤57Hz or ≥63Hz, ±0.2Hz 50Hz: ≤45Hz or ≥65Hz, ±0.2Hz							
Overload Capacity	load current = 110%,operating continuously load current > 110%,immediately shut off							
Performance								
Transfer Time	≤4ms							
Power Factor	1							
Protection Grade	20							
Display								

LED+LCD	Working Status/Voltage \ Current	
Protection function	Input under-voltage and over-voltage protection, output overload protection, over temperature protection, short circuit protection	
Working Environment		
Dielectric Strength	2000Vac/10ma/60s	
Humidity	0%-90%, no moisture condensation	
Work Temperature	-25℃~50℃	
Storage Temperature	-40℃~70℃	
Noise (1m)	≤55dB	
Operating Altitude	≤2500m	
Communication		
Communication	RS485 MODBUS protocol, CAN Optional	
Measurement		
Size (mm)	488*464*133mm(3U)	488*464*176mm(4U)

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