



**Stay up and running
For your daily operations**

STATIC TRANSFER SWITCH



- Dual input static switch
- Wide power adaptability
- Transfer time less or equal to 6ms
- Over current and lightning protection
- User selectable priority of supply
- RS232 and status output interface

Your Power In Safe Hands

Seamless Power Transfer without Transferring Your Load

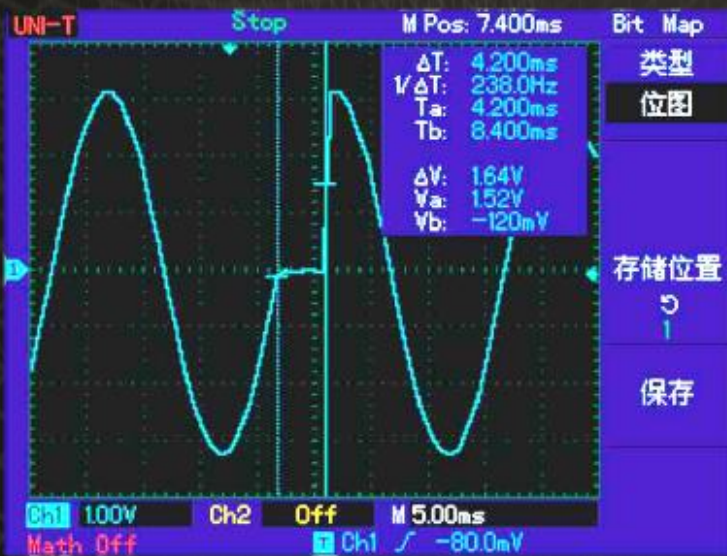


PowerHub Static Transfer Switch manages the redundancy of the power supply system which comprises of two independent powers to select a continuous and reliable power output. It allows pre-selection between the two independent inputs as default primary and backup source according to user's requirement.

The design of two-stage switch and high-speed MCU control ensures that the equipment supported by the STS are safe from any outages from any of input power sources attached to it. In other words, when there are cases of breakdown of primary source, STS will immediately switch to the secondary power supply automatically.

The design of STS also ensures that there will be no dual input supplying at all times, with capability to prevent over-current or voltage from happening.

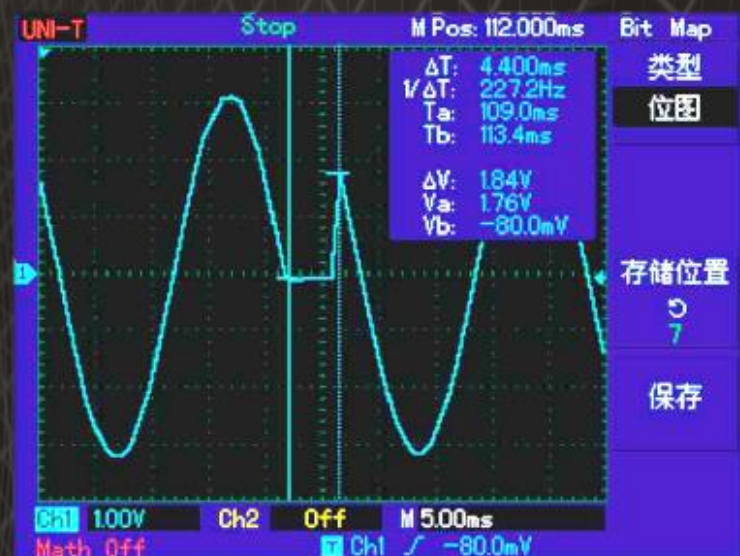
Synchronous Transfer



Synchronous Transfer

When the two sources have phase error within the pre-set range, they are considered synchronised, the automatic transfer is immediate. A delay time of not more than 5 millisecond may be required to complete the transfer process due to the time required to sense the required condition. Manual transfer / retransfer or automatic retransfer is instantaneous with time delay of not more than 0.1 millisecond.

Asynchronous Transfer

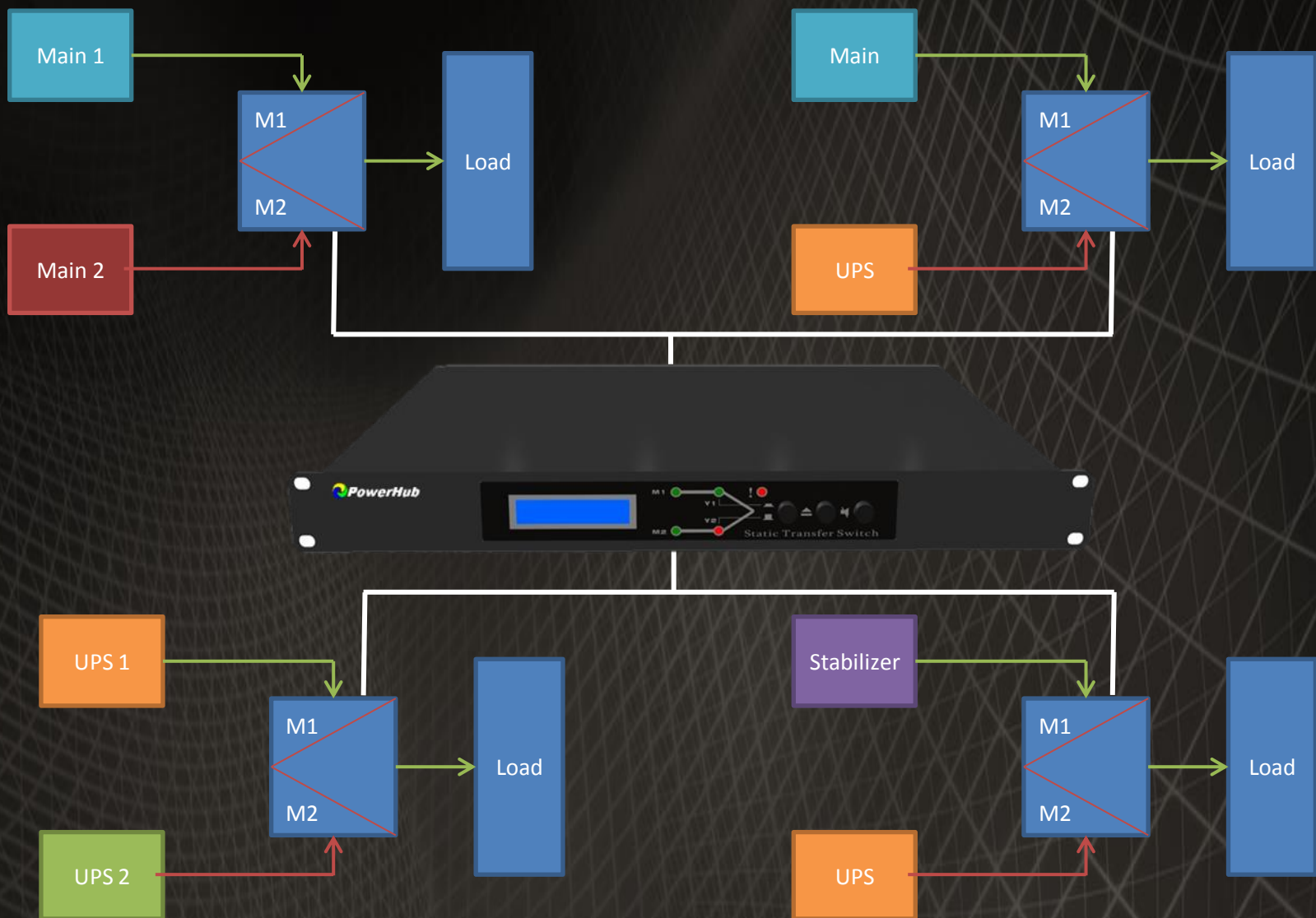


Asynchronous Transfer

Lack of synchronisation of the sources will force a time delay of 12 millisecond in the transfer operation. This is to ensure that the two unsynchronised sources are not short-circuited in the transfer process. Time delay is also required in the retransfer from the alternative source to the preferred source.

PowerHub adopt synchronous control technology in high sampling rate to ensure switching consistencies and seamless transfer of power to the load.

DIFFERENT COMBINATIONS OF CONNECTING METHODOLOGY



The system has the ability to work in combination between main utility supplies, main utility supply and UPS, UPS and UPS, main utility and voltage stabilizer, voltage stabilizer and UPS. Having the STS increases the reliability of power to the load continuously.

PRODUCT FEATURES:



Fast Load Transfer

PowerHub Static Transfer Switch can achieve the fastest load transfer of 6ms in the same phase and different phases



Priority of supply

PowerHub Static Transfer Switch allows users to set the priority between 2 input sources.



Overcurrent protection

When the output current is more than 110% and inrush current of 4 times are being introduced to the STS, overcurrent protection takes place.



Friendly human and computer interface

LED and LCD display of the equipment provides users an updated status of operations



Fault Alarm:

Audible alarm will be given whenever a fault is occurred at input and output sources.



TECHNICAL SPECIFICATIONS

Model	STS 16	STS 25	STS 32	STS 40	STS 63	STS 100
RATING	3.5KW	5.5KW	7KW	8.8KW	13.8KW	22KW
Rated Current	16A	25A	32A	40A	63A	100A
Input Voltage	200 ~ 240VAC ± 5V (M1 Input) 200 ~ 240VAC ± 5V (M2 Input)					
Input Frequency	50 ~ 60Hz					
Output Voltage	200 ~ 240VAC ± 5V					
Transfer Time	≤ 6ms					
Priority	User selectable					
Over Current	110%					
Efficiency	≥ 98%					
Display	LCD (electrical parameters), LED (status)					
Interface	RS232, Dry Contact					
Surge Protection	Input M1, input M2, RS232 interface					
Protection Type	Over current, short circuit					
Standard	ISO9001: 2000 (Design) EN5009-2, IEC60950 (Safety) EN5009-2, EN61000-3-2, EN61000-4-2, EN61000-4-3, EN61000-4-4 (Electromagnetic)					
Temperature	0°C - 40°C					
Humidity	10% - 90%					
Dimension (mm) WxDxH	482x400x1U		482x400x3U			