

# ATS

ATS Model
1000-3800
15 A 208 V
1000-5800
20 A 208 V
1000-7800
30 A 208 V
1000-9800
40 A 208 V
1000-3000
15 A 220, 240 V
1000-5000
20 A 220, 240 V
1000-7000
30 A 220, 240 V
1000-9000
40 A 220, 240 V

Two AC inputs - one AC output | Automatic transfer switch

## Automatic transfer switches

The ATS-1000 series of automatic transfer switches is designed for applications where two or more autonomous power sources are available. The ATS can be utilized as single or multiple units for different levels of redundancy.



Front view showing enable/disable audible alarm switch and LED status indicators

### Typical ATS applications

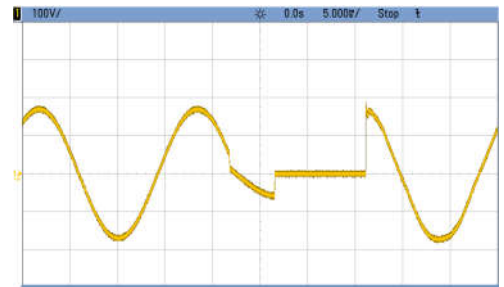
Applications include but are not limited to telecom, computers, data centers, industrial control, automatic test equipment, oil exploration and utilities.



Rear view showing compartment covers, DB-9 connector, primary and backup circuit breakers

### How the ATS works

The ATS works with asynchronous or out-of-phase power sources which allows them to be used with a number of different sources. Customers with special requirements can be offered custom programming to address special use situations.



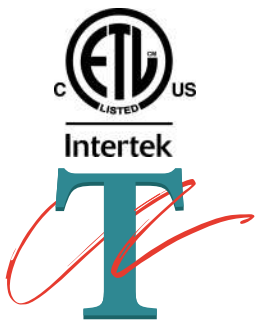
Typical transfer between primary and backup power

The ATS is fed by two AC power sources. When the primary power source detector circuit senses a loss of power on that circuit, it immediately switches the load over to the backup power source in under one cycle. This is

fast enough to be invisible to even the most sensitive equipment.

## Features and Benefits

- Accepts inputs from asynchronous sources and can be used with most supply voltages, including out-of-phase.
- Transfer time of under one cycle between sources which is fast enough for even the most sensitive loads.
- Audible alarm with enable/ disable switch provides for unattended security.
- LED status indicators for quick visual displays of fault conditions.
- Higher than 99% efficiency means substantial energy savings (when the ATS is used as a battery-less UPS).
- Remote monitoring & enable function (unit ON/OFF) is provided through a DB9 port.
- AC Inputs are galvanically isolated.
- 70-90% reduction in both CAP-EX and OP-EX (when the ATS is used as a battery-less UPS).
- Built-in primary and backup 'flat-on' rocker style circuit breakers are highly visible and easily accessible on rear of unit.
- The ATS allows redundant AC power to mission-critical equipment using any combination of UPS, backup generator or other available autonomous AC power sources.
- Sturdy steel enclosure can be rack, wall or floor mounted with optional mounting Brackets.
- RCD (Residual Current Device) compatible.



**TSi POWER**

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SPECIFICATION	ATS-1000-3800	ATS-1000-5800	ATS-1000-7800	ATS-1000-9800	ATS-1000-3000	ATS-1000-5000	ATS-1000-7000	ATS-1000-9000
<b>ELECTRICAL</b>								
VA at 208 V	3120	4160	6240	8320				
VA at 220 V					3300	4400	6600	8800
VA at 240 V					3600	4800	7200	9600
Current rating	15 A	20 A	30 A	40 A	15 A	20 A	30 A	40 A
Switching technology	Mechanical relays							
<b>INPUT</b>								
Voltage range:	208 V; 166 - 239 V ± 2.5 % nominal							
Voltage range: 220 V or 240 V					220 or 240 V; 184 - 264 V ± 2.5 % nominal			
Frequency range	47 to 63 Hz, Caution: Both sources must use same nominal frequency							
Transfer time	Under one cycle							
AC input connection	Hardwire (standard Hardwired units must be installed by a qualified electrician)							
<b>OUTPUT</b>								
Voltage / Current	208 V / 15, 20, 30 or 40A				220 or 240 V / 15, 20, 30 or 40 A			
Load regulation	1 % from no load to full load							
Power efficiency	99 % or higher							
AC distribution	Hardwire terminals (standard Hardwired units must be installed by a qualified electrician)							
LED indicators:	Green: Primary output, Yellow: Backup output, Red: No primary or backup AC							
Audible alarm	Buzzer beeps when loss of primary or backup AC occurs							
Audible alarm on / off	Enable / Disable switch							
Alarm contacts	Rear-mounted DB-9 connector sends loss of primary / backup AC							
<b>PHYSICAL</b>								
Dimensions: Inches / mm	W: 16" / 406 mm H: 3.25" / 83 mm D: 12" / 305 mm							
Weight: lbs / kg	12 lbs / 5.45 kg							
Front mount kit for rack: 19" / 23" / 24" / 482.6 / 584.2 / 609.6 mm	MK-5019A / MK-5023A / MK-5024A							
Center mount kit for rack: 19" / 23" / 24" / 482.6 / 584.2 / 609.6 mm	MK-5019F / MK-5023F / MK-5024F							
Wall or floor mount kit	MK-5000C							
<b>ENVIRONMENTAL</b>								
Ambient temperature	32° to 104° F / 0° to 40° C							
<b>AGENCY APPROVALS</b>								
Safety	UL 60950-1 Issue: 2007/03/27 Ed:2 UL Standard for Safety Information Technology Equipment - Safety - Part 1: General Requirements - CSA C22.2#60950-1 Issued: 2007/03/01 Ed:2 Information Technology Equipment Safety Part 1: General Requirements							
<b>WARRANTY</b>								
Warranty	Two year limited warranty covers parts and labor							

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### ATS system architecture

