ATS

ATS Model

1000-3000

15 A 208, 220, 240 V

1000-5000

20 A 208, 220, 240 V

1000-7000

30 A 208, 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.

Typical ATS applications

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

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.

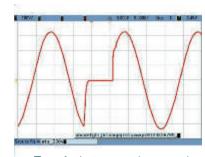
The ATS is fed by two AC power sources. When the primary power source detector circuit senses a loss of power on that circuit, it immediately switches the load over to the backup power source in less than eight ms.



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



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



Transfer between primary and backup power

Upon return of primary power, the ATS will switch back in less than eight ms. This is fast enough to be invisible to even the most sensitive equipment.



TSi power

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Features and Benefits

- Accepts inputs from asynchronous sources and can be used with most supply voltages, including out-of-phase.
- Eight ms transfer time between sources 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 is provided through a DB9 port.

- 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.

SPECIFICATION	ATS-1000-3000	ATS-1000-5000	ATS-1000-7000		
ELECTRICAL					
VA at 208, 220, 240 V:	3120 /3300 / 3600	4160 / 4400 /4800	6240 / 6600 /7200		
Circuit breaker ratings	15 A	20 A	30 A		
Switching technology		Mechanical relays			
INPUT					
Voltage / Current	208, 220, 240 V / 15, 20, 30 A				
Voltage range: 208 / 220 / 240	177 - 230 V / 187 - 253 V / 204 - 276 V				
Frequency range	47 to 63 Hz \pm 5%, Caution: Both sources must use same nominal frequency				
Transfer time		8 ms			
Input / output wire size	14 AWG (2.5 mm ²)	12 AWG (4 mm ²)	10 AWG (6 mm ²)		
AC input connections	Hardwire terminals				
	qualified electrician)				
OUTPUT					
Voltage / Current	208, 220, 240 V / 15, 20, 30 A				
Load regulation	1 % from no load to full load				
Power efficiency	99% or higher				
AC output connections	Hardwire terminals (standard Hardwired units must be installed by a qualified electrician)				
LED indicators: Green / Yellow / Red	Primary output / Backup output / 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				
PHYSICAL					
Dimensions: Inches / mm	W: 16" / 406	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" Center		MK-5019A / MK-5023A / MK-5024A			
mount kit for rack: 19" / 23" / 24" Wall or floor mount kit	MK-5019F / MK-5023F / MK-5024F MK-5000C				
ENVIRONMENTAL		WIN-3000C			
Ambient temperature	0° to 40° C / 32° to 104° F				
AGENCY APPROVALS	<u> </u>	0 10 70 0 702 10 104 1			
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				
WARRANTY					
Warranty	Two year limited warranty covers parts and labor				

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ATS system architecture

