

# ATS

## ATS Model

500-200x

15 A  
120 V

500-400x

20 A  
120 V

500-600x

30 A  
120 V

## TWO AC INPUTS - ONE AC OUTPUT / AUTOMATIC TRANSFER SWITCH

### Automatic transfer switches

The ATS-500 automatic transfer switch is designed for multiple autonomous power sources. 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, data centers, industrial control, automatic test equipment, oil & gas and utilities.

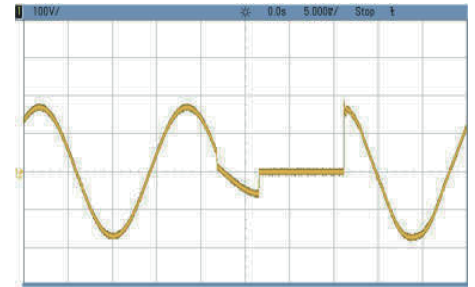


Rear view showing input plugs, output cable port, DB-9 connector, primary and backup circuit breakers

### How the ATS works

The ATS works with asynchronous or out-of-phase power sources. Customers with special requirements can request custom programming to address special use situations.

The ATS is fed by two AC power sources. When the primary power source loses power, the ATS switches the load to the backup power source in under one cycle. This is fast enough to be invisible to even the most sensitive equipment.



Typical transfer between primary and backup power



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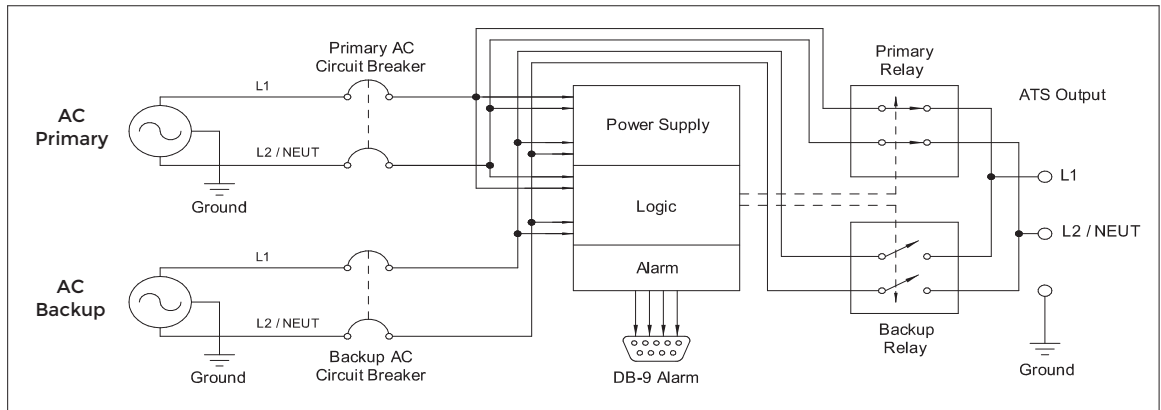
### Features and Benefits

- Accepts asynchronous inputs from most supply voltages, including out-of-phase.
- Transfer time of under one cycle - fast enough for even the most sensitive loads.
- Audible alarm with enable/ disable switch for unattended security.
- LED indicators for visual display of fault conditions.
- Greater than 99% efficiency for substantial energy savings when used as batteryless UPS.
- Remote monitoring via DB9 port.
- Galvanically isolated AC inputs.
- 70-90% reduction in CAPEX and OPEX when used as a batteryless UPS.
- Integral primary and backup rocker circuit breakers are readily visible and easily accessible at the rear.
- Allows redundant AC power to mission-critical equipment with any combination of UPS, generator, or other autonomous AC power sources.
- Rugged steel enclosure can be wall or floor mounted with optional mounting brackets.

SPECIFICATION	ATS-500-200X	ATS-500-400X	ATS-500-600X
<b>ELECTRICAL</b>			
VA at 120 V:	1800	2400	3600
Current rating	15 A	20 A	30 A
Switching technology	Mechanical relays		
<b>INPUT</b>			
Voltage range	120 V; 92-132 V ± 2.5 % nominal		
Frequency range	47 to 63 Hz, Caution: Both sources must use same nominal frequency		
Transfer time	Under one cycle		
Plug models: -2002 / -2003 / -2004 Plug models: -4002 / -4003 / -4004 Plug models: -6002 / -6003 models: -xxxx	5-15P / L5-15P / IEC 60320 C14 5-20P / L5-20P / IEC 60320 C20 5-30P / L5-30P Other configurations available		
<b>OUTPUT</b>			
Voltage / Current	120 V / 15 / 20 / 30 A		
Load regulation	1 % from no load to full load		
Power efficiency	99 % or higher		
Receptacle models: -2002 / -2003 / -2004 Receptacle models: -4002 / -4003 / -4004 Receptacle models: -6002 / -6003 Receptacle models: -xxxx	5-15R / L5-15R / IEC 60320 C13 5-20R / L5-20R / IEC 60320 C19 5-30R / L5-30R Other configurations available		
LED indicators:	Green: Primary output, Yellow: Backup output, Red: Primary or backup AC is out of tolerance		
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: 11.25" / 286 mm H: 3" / 76 mm D: 10" / 254 mm		
Weight: lbs / kg	8 lbs / 3.63 kg		
Wall or floor mount kit	MK-4000C		
<b>ENVIRONMENTAL</b>			
Ambient temperature	32° to 104° F / 0° to 40° C		
<b>AGENCY</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

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