

ATS

Two AC inputs - one AC output | Automatic transfer switch

| ATS Model |
|---------------------|
| 1000-380x |
| 15 A 208 V |
| 1000-580x |
| 20 A 208 V |
| 1000-780x |
| 30 A 208 V |
| 1000-300x |
| 15 A 220, 240 V |
| 1000-500x |
| 20 A 220, 240 V |
| 1000-700x |
| A30 A 220, 240 V |

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

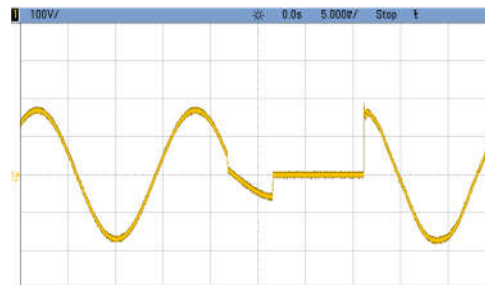
Applications include but are not limited to telecom, computers, data centers, industrial control, automatic test equipment, oil exploration and utilities.



Rear view of Model -5x03 with two L6-20P Plugs and one L6-20R Receptacle

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

1103 W Pierce Avenue
Antigo, WI 54409 USA
Tel: + 1-715-623-0636
Fax: + 1-715-623-2426
Toll-Free: 1-800-874-3160
email: sales@tsipower.com
Web: www.tsipower.com

| SPECIFICATION | ATS-1000-380x | ATS-1000-580x | ATS-1000-780x | ATS-1000-300x | ATS-1000-500x | ATS-1000-700x |
|--|--|---------------|---------------|--|---------------|---------------|
| ELECTRICAL | | | | | | |
| VA at 208 V | 3120 | 4160 | 6240 | | | |
| VA at 220 V | | | | 3300 | 4400 | 6600 |
| VA at 240 V | | | | 3600 | 4800 | 7200 |
| Current rating | 15 A | 20 A | 30 A | 15 A | 20 A | 30 A |
| Switching technology | Mechanical relays | | | | | |
| INPUT | | | | | | |
| Voltage range: 208 V | 208 V; 166 - 239 V ± 2.5 % nominal | | | | | |
| Voltage range: 220 V or 240 V | | | | 220 V 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 | | | | | |
| Plug models: -3x02 / -3x03 / -3x04 Plug models: -5x02 / -5x03 / -5x04 Plug models: -7x02 / -7x03 Plug models: -xxxx | | | | 6-15P / L6-15P / IEC 60320 C14 6-20P / L6-20P / IEC 60320 C20 6-30P / L6-30P Other configurations available | | |
| OUTPUT | | | | | | |
| Voltage / Current | 208 V / 15, 20, 30 A | | | 220 V / 240 V / 15, 20, 30 A | | |
| Load regulation | 1 % from no load to full load | | | | | |
| Power efficiency | 99 % or higher | | | | | |
| Receptacle models: -3x02 / -3x03 / -3x04 Receptacle models: -5x02 / -5x03 / -5x04 Receptacle models: -7x02 / -7x03 Receptacle models: -xxxx | | | | 6-15R / L6-15R / IEC 60320 C13 6-20R / L6-20R / IEC 60320 C19 6-30R / L6-30R Other configurations available | | |
| 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 | | | | | |
| PHYSICAL | | | | | | |
| 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 Center mount kit for rack: 19" / 23" / 24" / 482.6 / 584.2 / 609.6 mm Wall or floor mount kit | | | | MK-5019A / MK-5023A / MK-5024A MK-5019F / MK-5023F / MK-5024F MK-5000C | | |
| ENVIRONMENTAL | | | | | | |
| Ambient temperature | 32° to 104° F / 0° to 40° C | | | | | |
| AGENCY APPROVALS | | | | | | |
| 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 | | | | | |

TSi Power's ongoing product improvement process makes specifications subject to change. Other companies product names herein are for identification purposes only and may be trademarks of their respective companies.



TSi POWER
 1103 W Pierce Avenue
 Antigo, WI 54409 USA
 Tel: + 1-715-623-0636
 Fax: + 1-715-623-2426
 Toll-Free: 1-800-874-3160
 email: sales@tsipower.com
 Web: www.tsipower.com

ATS system architecture

