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APC Next Generation Rack ATS

Automatic switching power redundancy for single corded equipment.



Next Generation ATS with multiple outlets eliminate the need for a secondary rack PDU downstream of rack ATS.

- > Seamless power transfer
- > Continuous source monitoring
- > Current monitoring and alarms
- > Robust out-of-phase switching
- > Network management interface
- > Multiple outlets

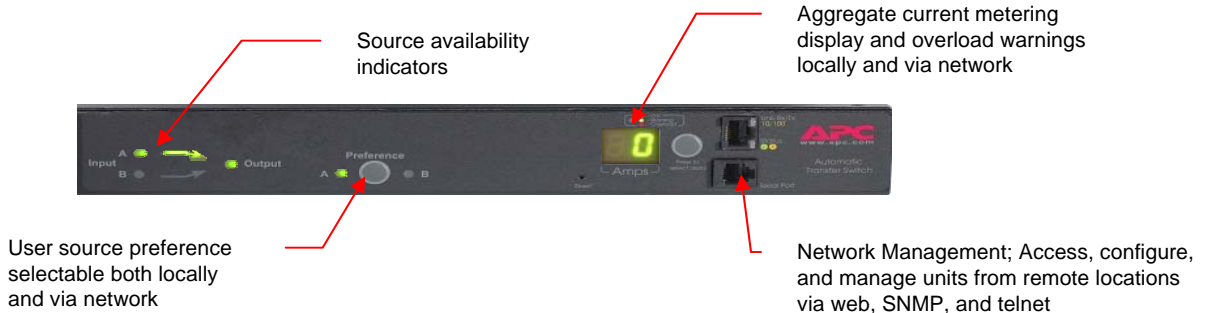
The APC Rack Automatic Transfer Switch (ATS) is a high availability switch that provides redundant power to connected equipment and has two input power cords, one for each AC source. The Rack ATS supplies power to the connected load from a primary AC source. If that primary source becomes unavailable, the Rack ATS automatically transfers loads to the secondary source. The transfer time from one source to the other is seamless to the connected equipment, as the switching occurs safely between the two input sources regardless of any phase differences. The units have built-in network connectivity, which allows for remote management through Web, SNMP, or Telnet interfaces.

With the Next Generation of ATS, end users can take advantage of many new features. With multiple outlets, several devices can be plugged directly into the ATS without the need for an additional PDU. Current monitoring and alarms help prevent downtime to the equipment by providing aggregate current measurements and warnings when power consumption draws near the maximum rating of the ATS. Built-in network and local interfaces allow for custom configuration settings for added flexibility. The ATS product family includes a variety of input and output connections to distribute 120V, 208V, or 230V power to multiple outlets. Having a variety of inputs and outputs allow users to adapt to varying power distribution requirements.

APC[®]
by Schneider Electric

Rack ATS Features

Front Panel interface

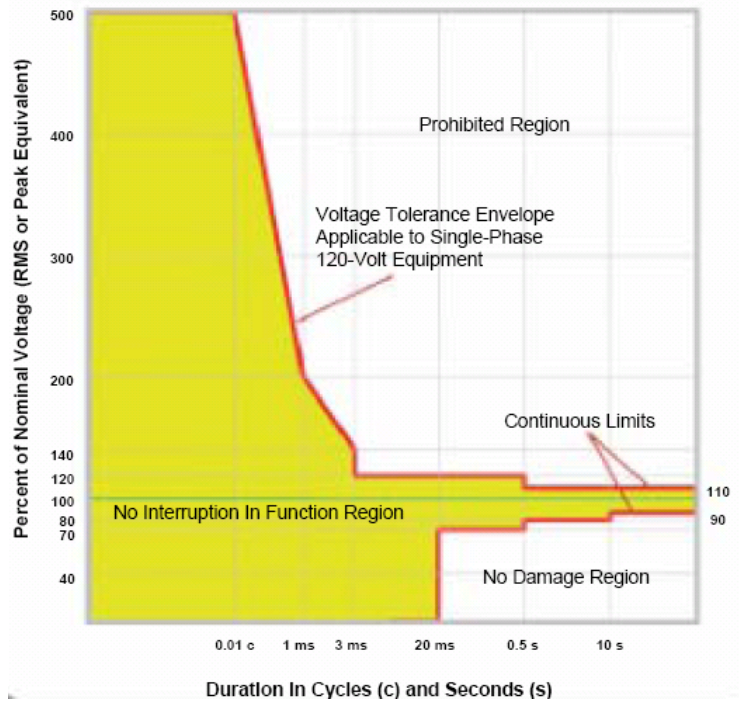


Seamless power transfer

APC ATS units switch power seamlessly to IT equipment. Per the ITI Curve, typical power supplies will operate 20ms after AC voltage drops to zero. APC ATS units switch sources well under this industry standard amount of time. The switching time includes the time it takes for the built-in intelligence to determine whether the voltage and frequency are in range. Any point of failure in the electronics does not cause a drop out of the output voltage because the unit incorporates redundancy of its electronic circuitry to avoid fault tolerance.

- > 8 - 12ms typical
- > 16ms max at high sensitivity

ITI (CBEMA) Curve
(Revised 2000)



Rack ATS Features

Robust out-of-phase switching

To prevent relay welding, both hot and neutral lines are switched using a break-before-make system so there is no cross-connection of sources, regardless of the phase between sources.

- > AC sources are isolated prior to switching outputs, eliminating the chances of relays welding at contacts
- > Sources can be up to 180 degrees out-of-phase
- > Relays are rated up to 40,000 cycles at full load (40A)



Current monitoring and alarms

Current monitoring and alarms help prevent downtime by providing aggregate current measurements and warnings when power consumption draws near the maximum rating of the ATS.

- > Aggregate current metering display
- > Overload warnings locally and via network
- > Fully customizable settings

Load Management

Present Load
Load: 0.0 Amps [Normal Load]

Thresholds
Overload Alarm: 16 Amps
Near Overload Warning: 12 Amps
Low Load Warning: 0 Amps

Apply Cancel

Continuous source monitoring

With a built-in intelligent interface, APC ATS units can monitor both sources for voltage and frequency fluctuation.

- > "Real time" monitoring of input voltage and frequency
- > Auto detection of nominal frequency
- > User Configurable voltage and frequency range settings

Source Measurements

	Source A	Source B
Input Frequency:	0 Hz	60 Hz
Input Voltage:	0 VAC	118 VAC

Power Output and Power Supplies

	Power Output	Power Supplies
Total Power:	0 Watts	
Source A (240 PS):	0 VDC	
Source B (240 PS):	23 VDC	
+12V PS:	11 VDC	
-12V PS:	11 VDC	
5V PS:	0 VDC	

Network management interface

User interface allows remote access to unit status and settings locally and remotely. Fully configurable menu options give users the flexibility to set unit options.

- > Access via web (ethernet), telnet (serial), and SNMP
- > Compatible with APC ISXM and ISXC
- > Built in Network management card

Action Alarms
3 Critical Alarms Present

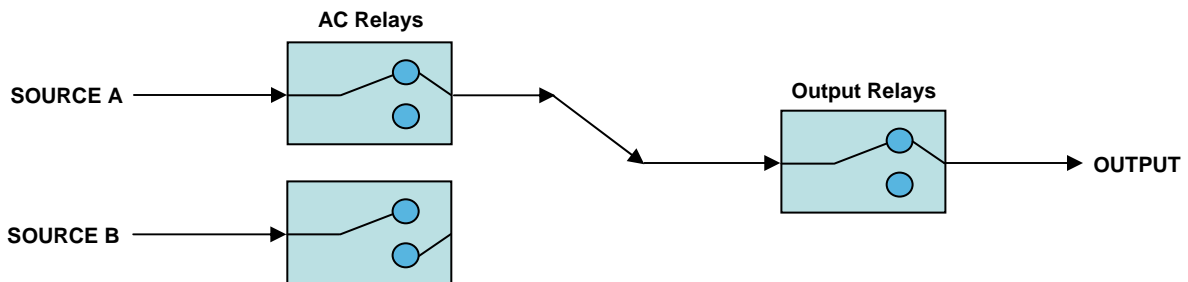
Device Status
Source B selected, Switchover Not Possible
Load: 0.0 Amps

ATS Parameters
Model: AP7723
Name: Unknown
Contact: Unknown
Location: Unknown
Rating: 16, 16A
Users: Administrator
UpTime: 0 Days 0 Hours 13 Minutes

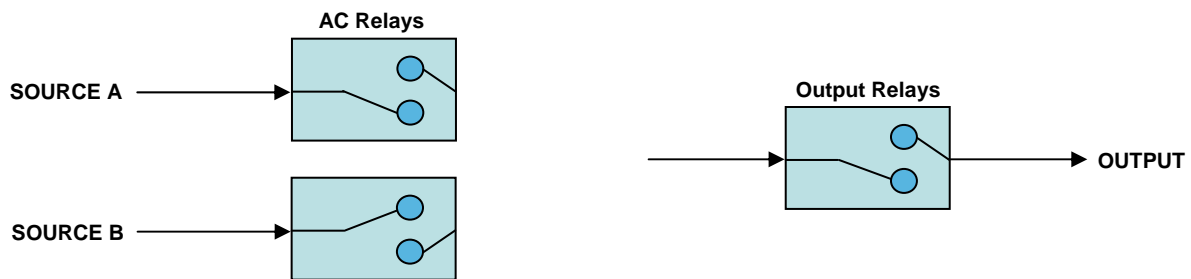
Recent Device Events

Date	Time	Event
06/06/2008	15:16:48	Automatic Transfer Switch: Under voltage violation on Source B.
06/06/2008	15:16:48	Automatic Transfer Switch: Fault exists on Source B.
06/06/2008	15:16:34	Automatic Transfer Switch: ATS has lost redundancy. Source A is not available.
06/06/2008	15:16:34	Automatic Transfer Switch: ATS Communication established.
06/06/2008	15:16:20	Automatic Transfer Switch: 7-Segment display hardware initialized.

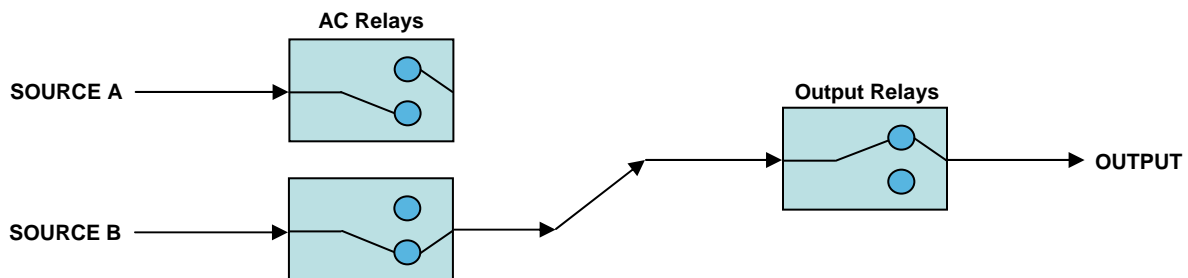
“Break Before Make” Switching Sequence



Source A is providing power to the outlets, while Source B is isolated from the system.



Firmware detects that source A is out of the user specified tolerance range. The input power from Source A is removed, then the output is disconnected. This eliminates the chances of a relay welding and allows for out-of-phase switching. Crucial timing is controlled through the firmware.



Relays are engaged and power is transferred to source B. Total transfer time is 8-12 ms (typical).





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