E-ATS

e-ATS
Transfer Switch 16A, 32A
Redundant Power
For Single-Power Devices

INDUSTRIAL GRADE 30A E-ATS
The EPI e-ATS features two input power feeds, from separate AC circuits, to supply single-power equipment with dual, redundant power sources. With dual-power input, the first power in-feed supplies power to one half of the connected device(s), while the remaining device(s) are powered by the other power input. With this automatic transfer switch, if either power in-feed becomes unavailable, then the EPI e-ATS auto-switches to the remaining power feed source to re-establish power to the connected equipment.

The e-ATS architecture provides patent pending power infeed sharing. In the normal operational mode, each power in-feed is active and supplying power to one half of the total outlet receptacles. When a power in-feed fails, the receptacles normally associated with this “downed” in-feed are automatically switched over to the remaining active power feed. Once power is re-established to the “downed” in-feed, the receptacles associated with it are switched back. This feature results in switching of only half the receptacles, and their associated load, in the event of a power in-feed failure.

A major advantage of the Industrial Grade e-ATS is the power in-feed sharing which reduces wear on the relays. It also utilizes our patented arc suppression technology to prevent arcing between the relay points and contacts during power in-feed transfers. This is accomplished by utilizing solid state devices in conjunction with electromechanical relays. Solid state devices are used to both break and make connections to the electromechanical relay, allowing the isolation relay to make and break its contacts without heavy load currents being present.

KEY FEATURES

DUAL INPUT POWER:

- Supply single-power corded equipment with dual redundant power feeds
- First feed provides power to one half the outlets; second feed supplies the other half

FAST TRANSFER RATES :

- Primary to secondary power transfer is 10-16 milliseconds maximum
- Power interruption will not affect uptime or performance
- Phased Synchronization between power input feeds not required

VOLTAGE:

- 100-120 or 208-240VAC
- Power interruption will not affect uptime or performance
- Phased Synchronization between power input feeds not required

PATENTED ARC-SUPPRESSION:

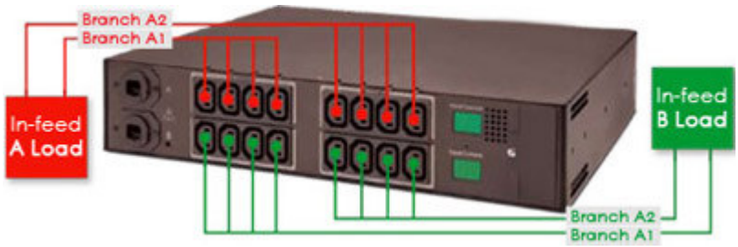
- Prevents arcing between relay points and contacts during power in-feed transfers

BRANCH CIRCUIT PROTECTION:

- Compliant to UL 60950-1

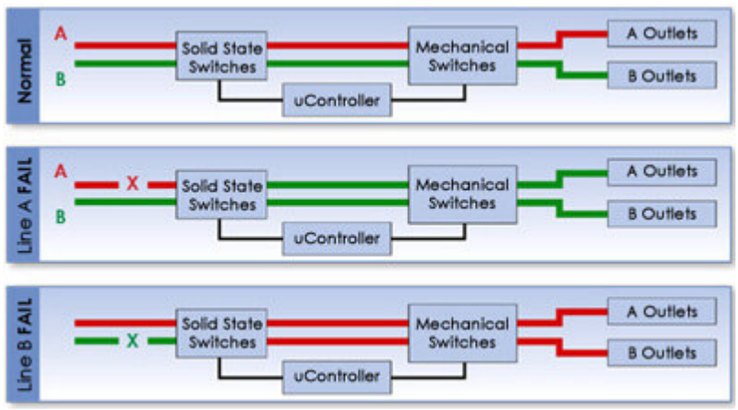
VISUAL INDICATION :

- LED indicators easily distinguish which power source is supplying power to the outlets
- Monitors the load per circuit
- Cable-retention brackets for power outlets



DUAL-FEED ADVANTAGE

The e-ATS utilizes patent pending power in-feed sharing. In normal operation, each power in-feed is actively supplying power to one half of the total receptacles. When a power infeed fails, the receptacles associated with this “downed” in-feed are automatically switched over to the remaining active power feed. This results in switching only half of the receptacles, and their associated load, in the event of a power in-feed failure. The main advantage of the power in-feed sharing design is to reduce the wear on the relays. Our competitors must have their relays engaged at all times during an in-feed failure as they switch the entire load, which creates pitted contacts and greatly shortens relay life.



ARC SUPPRESSION TECHNOLOGY

The e-ATS utilizes patented arc suppression technology. This is accomplished with solid state switches in conjunction with electromechanical relays to ensure high current transfer capability along with increased isolation between in-feed sources. This prevents arcing across relay contacts due to large dv/dt voltages that can occur with in-feeds that are not phased synchronized.

CLEAN POWER TRANSFER

The transfer from one power feed to the other is seamless to the connected equipment with an interruption of power on either power in-feed not affecting the equipment's uptime or performance. The switched time is 10-16ms (milliseconds). The latest ITI (Information Technology Industry Council) AC voltage curve for ITE equipment shows that ITE equipment is designed to tolerate a dropout in voltage from 0%-7% for a maximum time period of 20ms Server Technology's equipment is well within the 20ms cut-off as shown here.