

Power Quality Start Here! The SR-380X Series

Power quality has become a critical issue. For the business in this time, we depend on our computers and electronic equipments more than ever before. At the same time, this technology is more threatened than ever by increasing electrical problems. Your sensitive electronic equipment faces a host of invisible power aberrations every time you plug it in.



Silicon Automatic Voltage Stabilizer / Line Conditioner

Why power quality has become such and important issue?

Today's microprocessor chips are far more dense than they were even a few years ago, and subsequently, much more sensitive to even slight surges.

Clock speeds, or operating frequencies, have increased and reached the frequency range of high voltage transients. Slower processors ignored them, but high speed processors may actually interpret a transient as a command sequence.

Now microprocessor technology is being used than ever before. Microprocessors are showing up in home and office automation equipment, factory automation equipment, laboratory equipment, medical equipment, military equipment, measuring and testing instrument, photographic equipment, studio equipment, telecommunication equipment, industry machine, etc.

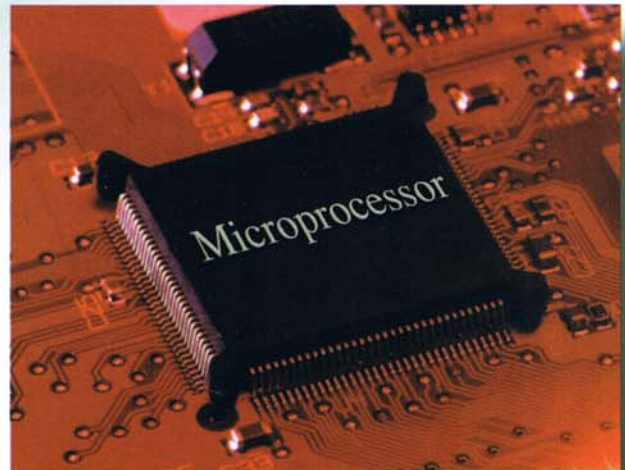
Types of electrical problems

Spikes are high magnitude, split second events that can disrupt computer operations and even damage equipment. Spikes can be caused by many things. The most important cause is lightning.

Surges are over voltage that last longer than one cycle. Surges can also be caused when utilities switch large loads off the line. Surges are more dangerous because of their duration rather than their magnitude. Long or frequent surges can damage electronic equipment.

Sags are the opposite of surges. Sags can be a serious threat to computers. If the voltage supply to the computer is inadequate, it can cause the computer to lock up. Sags can also slow the speed of motor, disk drives, causing read errors or disk crashes.

Noise is a collective term for various kinds of high frequency impulses that ride on the normal sine wave. Noise can be generated by lightning, generators or radio transmitters. Noise can cause computer processing errors, incorrect data transfer and printer or terminal errors.



The SR-380X Series is the right choice for the client to chooses the worthwhile equipment solution.

Brownouts are long term under voltage lasting minutes or even hours. Brownouts can cause computer malfunctions and hardware damage the same way that sags do, by depriving logic circuits of the voltage they need to operate properly.

Damages of electrical problems

Electrical problems can scramble your data, prematurely wear electronic components, or destroy microprocessor chips. Some symptoms are: unknown data errors, I/O retries, lost files, intermittent system operations, irregular performance, high maintenance rates, lost money to repair and unexplained hardware problems.

What Hi-technology equipments need?

All sensitive electronic equipments need clean, voltage controlled electric power to assure proper performance. That means a

constant voltage level free from transient surges and from electromagnetic or radio frequency interference.

Total solutions for your electrical problems

Silicon Automatic Voltage Stabilizer and Line Conditioner model The SR-380X Series protect againsts voltage fluctuations and surge damages to your expensive equipment. The SR-380X Series responds to voltage change in the power line to supply constant 380 VAC power to your sensitive electronic equipment. With its automatic tap change design by static electronics system, it costs less to buy than any other type of line conditioner and operates quietly and efficiently.

THREE PHASE

Home and office
automation
equipment

Factory
automation
equipment

Production and
process control
equipment

Laboratory
equipment

Scientific
equipment

Medical and
surgical
equipment

Military
equipment

Measuring and
testing instrument

Photographic
equipment

Studio
equipment

Telecommunication
equipment

Radar and
navigation
equipment

Industry
machine Robot
CNC EDM etc.

APPLICATIONS

All sensitive
electronic
equipments

Automatic Voltage Stabilizer/Line Conditioner

SPECIFICATION

THREE PHASE SYSTEM

| MODEL | | SR-380X SERIES |
|---|---|---|
| VOLTAGE STABILIZATION SYSTEM | | AUTOMATIC TAP CHANGE BY STATIC ELECTRONIC SYSTEM |
| TECHNOLOGY | | DIGITAL CONTROL SYSTEM |
| RESPONSE TIME | | MAXIMUM 10 ms (1/100 sec) AT ZERO VOLTAGE CROSSING |
| TRANSFORMER | DOUBLE OPERATION | TAPPING TRANSFORMER AND SERIES BOOST-BUCK TRANSFORMER |
| ELECTRICAL SYSTEM | | |
| 3 PHASE 4 WIRE AND GROUND | VOLTAGE | 380/220 OR 400/230 OR 415/240 VOLT (L-L / L-N) |
| 3 PHASE 3 WIRE AND GROUND | | 200 OR 220 VOLT (L-L) |
| INPUT | | |
| REGULATION | | +15% TO -20% (±15% FOR OUTPUT REGULATION ±1%) |
| FREQUENCY | | 50 Hz |
| WAVE FORM | | SINE WAVE |
| OUTPUT | | |
| REGULATION | | |
| FREQUENCY | | |
| WAVE FORM | | SINE WAVE (SYNCHRONIZE WITH INPUT WAVE FORM) |
| DELAY TIME AFTER RESET | | 5 sec |
| LINE CONDITIONER | | |
| TRANSIENT VOLTAGE AND SURGE SUPPRESSION | | VARISTOR |
| HIGH SURGE AND LIGHTNING PROTECTION | | GAS ARRESTER |
| RFI AND EMI FILTER | | X2 CAPACITOR, Y2 CAPACITOR, POWER CAPACITOR AND TOROIDAL COIL (TOROIDAL COIL EXCEPT MORE POWER RATE UP 90 kVA) |
| PROTECTION SYSTEM | | |
| SAFETY DIAGNOSIS AND RESET PROTECTION | HIGH INPUT VOLTAGE | MORE THAN +15% |
| | LOW INPUT VOLTAGE | LESS THAN -20% (-15% FOR OUTPUT REGULATION ±1%) |
| SPIKE AND SURGE PROTECTION | SHUTDOWN | SPIKE FUSE |
| OVER LOAD AND OUTPUT SHORT CIRCUIT | | CIRCUIT BREAKER |
| SURGE PROTECTION WHEN ELECTRICITY RESTORE SUDDENLY | AUTOMATIC SHUTDOWN AND ALARM | RESET SYSTEM |
| PHASE FAULT PROTECTION | | ±10% |
| OUTPUT VOLTAGE LIMIT | | WHEN INPUT VOLTAGE WAS CONTINUED FLUCTUATION |
| VOLTAGE FLUCTUATION | | 50 Hz ± 4% (48-52 Hz) |
| FREQUENCY ERROR | | WHEN SYSTEM ERROR OR THE DEVICES LEAK OR FAULT |
| OPERATION SYSTEM DIAGNOSIS | | |
| DISPLAY | | |
| INPUT | VOLT METER AND LAMPS IN EACH PHASE | |
| OUTPUT | VOLT METER, AMP METER AND RESET LAMP | |
| SELECTOR SYSTEM | ELECTRONIC SELECTOR CONTROL | |
| SELECTOR DISPLAY | LED INDICATOR | |
| GENERAL | | |
| OPERATION ON/OFF | CIRCUIT BREAKER AND RESET SWITCH | |
| RESET SYSTEM | MANUAL RESET AND AUTO RESET | |
| ALARM SYSTEM | AUDIBLE ALARM | |
| BY-PASS SYSTEM, TRANSFER SYSTEM WHEN NEED TO SUPPLY ELECTRICITY FROM MDB WITHOUT PASS STABILIZER | TRANSFER DIRECTLY TO MAIN LINE BY MAGNETIC CONTACTOR THAT CONTROL WITH 2 BUTTONS SWITCH, SEPARATE TO TURN ON/OFF AND CAN PROTECT TRANSFERENCE WHILE STABILIZER IS OPERATING | |
| BY-PASS OPERATION, PROTECTION SYSTEM WHILE USING ELECTRICITY DIRECTLY WITHOUT PASS STABILIZER | AUTOMATIC SHUTDOWN WHEN BLACKOUT AND RESTORE SUDDENLY (SURGE VOLTAGE) | |
| INTERNAL AND EXTERNAL CONNECTIONS DEVICE | TERMINAL BLOCK | |
| PHISICAL | | |
| AMBIENT TEMPERATURE | 0~50 °C | |
| RELATIVE HUMIDITY | 0~95% | |

DIMENSION (WxHxD) CM.

| MODEL | SR-3802 | SR-3803 | SR-3804 | SR-3805 | SR-3806 | SR-3807 | SR-3807B | SR-3807C | SR-3808 | SR-3808B | SR-3808C |
|-------|----------|----------|-----------|-----------|-----------|-----------|------------|------------|-----------|------------|------------|
| | 37x85x69 | 54x94x81 | 54x116x62 | 54x152x62 | 64x152x76 | 74x172x76 | 144x172x76 | 214x172x76 | 74x172x92 | 144x172x92 | 214x172x92 |

Specifications are subject to change without prior notice. This item can change by customer's requirement.

NUMBER: CTSR-3803 EN1

SILICON POWER SUPPLY Co., Ltd.

455/13-16 Soi Phibunuppatham, Latphrao Road, Samsennok, Huaykwang, Bangkok 10320

TEL: 0-2275-1182, 0-2275-1275, 0-2275-7161, 0-2276-9973 FAX: 0-2275-7309

Website: www.sidital.com

Website: www.siliconthai.com

E-mail: info@siliconthai.com

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