

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 an 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 choose 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			
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		±5%, ±2.5%, ±1.5%, ±1%	
FREQUENCY		50Hz (SAME AS INPUT 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			
OUTPUT VOLTAGE LIMIT		±10%	
VOLTAGE FLUCTUATION		WHEN INPUT VOLTAGE WAS CONTINUED FLUCTUATION	
FREQUENCY ERROR		50 Hz ± 4% (48~52 Hz)	
OPERATION SYSTEM DIAGNOSIS		WHEN SYSTEM ERROR OR THE DEVICES LEAK OR FAULT	
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/OF 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-380X SERIES ENO

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