

The SR-Series

Silicon Automatic Voltage Stabilizer / Line Conditioner

SILICON[®]
POWER SUPPLY



Nowadays the progress of electronics and computer technology has played a major role in developing equipments, machines and other apparatus for higher efficiency, higher velocity, better quality outcome of works and the ability to satisfy various kinds of needs by bringing in a complex electronic circuit or microprocessor to act as a heart of the operation controlling system. This microprocessor technology is being used than ever before. Microprocessors are showing up in home and office automation equipment, factory automation equipment, laboratory equipment, scientific equipment, medical equipment, military equipment, measuring and testing instrument, photographic equipment, studio equipment, telecommunication equipment, etc.

**Best Choice
for
Reliable
Power
Quality**



What's hot now?

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.



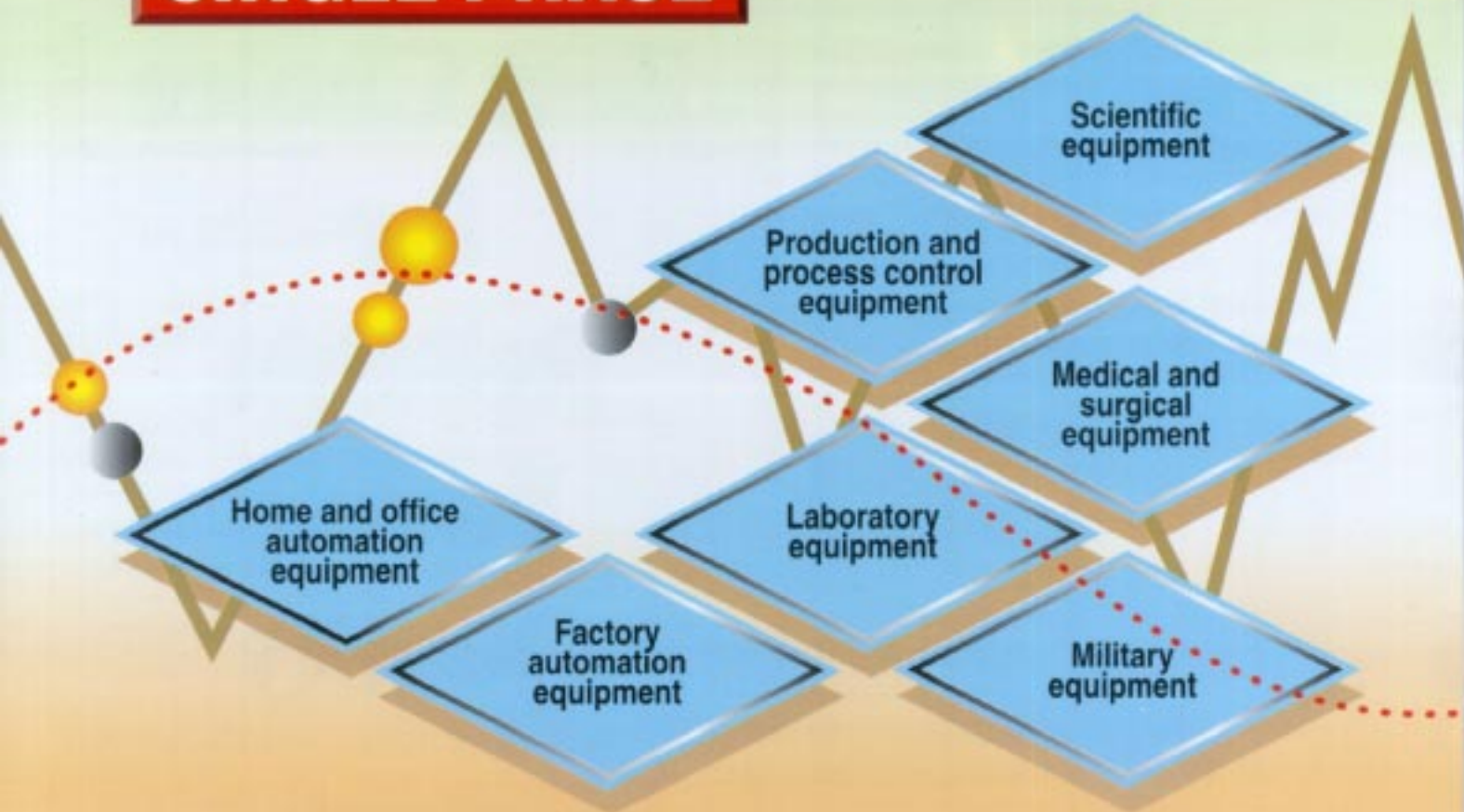
What Hi-technology equipments need?

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.

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.

SINGLE PHASE



Total solutions for your electrical problems

Silicon Automatic Voltage Stabilizer and Line Conditioners model The SR-Series protect against voltage fluctuations and surge damages to your expensive equipment.

The SR-Series responds to voltage change in the power line to supply constant 220 VAC power to your sensitive electronic equipment, even if the incoming voltage sags as low as 160 Volts or rises as high as 260 Volts.

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.



Best stabilizer



The SR-Series is a good power line conditioner combines voltage regulation for maintaining a dependable voltage output, RFI&EMI filter, and surge suppression to eliminate damaging spikes.

The SR-Series is the right choice for the client to choose the worthwhile equipment solution.

Measuring and testing instrument

Radar and navigation equipment

All sensitive electronic equipments

Photographic equipment

Industry machine

Telecommunication equipment

Studio equipment

APPLICATIONS

SILICON AUTOMATIC VOLTAGE STABILIZER/LINE CONDITIONER

SINGLE PHASE SYSTEM



MAIN FEATURES

- ▶ Automatic tap change design
- ▶ Static electronics system
- ▶ Series boost-buck transformer
- ▶ Wide input voltage range
- ▶ Constant output voltage
- ▶ EMI/RFI noise filter
- ▶ Surge and spike protection
- ▶ Overload and short circuit protection
- ▶ Over and under voltage shutdown
- ▶ Audible alarm
- ▶ Fast response time
- ▶ Very low distortion
- ▶ High efficiency



FEATURES UPDATE

- ▶ **Power meter display**
Input/Output voltage
Output current
LED HI-Low input indicator
- ▶ **Special case design**
Easy installation and maintenance
- ▶ **Output delay time**
- ▶ **Safety bypass design**
Interlock system
Soft push button control
- ▶ **Air flow design**
Blower and dust filter
- ▶ **Except 1-10 KVA**



ABOUT SILICON

Silicon Power Supply is the famous and leading manufacturer in the Automatic voltage Stabilizer/Line Conditioner. We started business since 1985. We have researched and developed the new power supply to provide better performance and reliable power quality.

We aimed commercially at selling the quality of the product together with providing the best service to our clients.

SPECIFICATIONS

MODEL	SR-212V, SR-313V SR-515V	SR-616V, SR-717V SR-818V, SR-919V
POWER RATING	1-10 KVA	15-80 KVA
VOLTAGE STABILIZATION	STATIC ELECTRONICS SYSTEM	
SYSTEM	AUTO AND BOOST-BUCK TRANSFORMER	
TRANSFORMER	1 CYCLE OR 20 ms/TAP at zero voltage crossing	
RESPONSE TIME		
INPUT		
OPERATING VOLTAGE	160 -260 VOLT	
VOLTAGE REGULATION	220 VOLT $\pm 15\%$ TO -20%	
FREQUENCY	40-75 Hz	
WAVEFORM	SINE WAVE	
PHASE	SINGLE PHASE	
OUTPUT		
VOLTAGE REGULATION	220 VOLT $\pm 5\% \pm 2.5\% \pm 1.5\%$ (OR OPTION)	
VOLTAGE LIMIT	220 VOLT $\pm 10\%$ OR SETTING	
FREQUENCY	SYNCHRONIZE WITH INPUT FREQUENCY	
WAVEFORM	SINE WAVE (SYNCHRONIZE WITH INPUT WAVEFORM)	
WAVEFORM DISTORTION	LESS THAN 0.5%	
PHASE	SINGLE PHASE	
POWER FACTOR	0.8 LEADING TO LAGGING	
EFFICIENCY	96 % AT FULL LOAD	
OVERLOAD CAPACITY	100% OF INRUSH CURRENT FOR 1 CYCLE 300% OF INRUSH CURRENT FOR 10 ms	
LINE CONDITIONER		
TRANSIENT AND SURGE SUPPRESSION	MOV (Normal and Common Mode) Energy 140 joules / 2 ms. clamping voltage 710 V/100A	
SPIKE PROTECTION	LIGHTNING GAS ARRESTER AND SPIKE FUSE	
RFI AND EMI FILTER	X2 CAPACITOR, CERAMIC CAPACITOR POWER CAPACITOR AND TOROIDAL COIL	
TRANSVERSE MODE NOISE REJECTION	GREATER THAN 60 dB	
PROTECTION SYSTEM		
OUTPUT VOLTAGE FAILURE	AUTOMATIC SHUTDOWN AND ALARM	
OVERLOAD PROTECTION	AUTOMATIC SHUTDOWN AND BREAKER	
OUTPUT SHORT CIRCUIT PROTECTION	(Except 1 KVA by fuse)	
SPIKE AND SURGE PROTECTION	SPIKE FUSE AND AUTOMATIC SHUTDOWN	
ALARM AND DISPLAY		
ALARM	AUDIBLE ALARM	
INPUT INDICATOR	VOLTMETER AND LED INDICATOR	
OUTPUT INDICATOR	VOLTMETER, AMPMETER AND RESET LAMP	
SELECTOR SYSTEM	MANUAL SWITCH	
GENERAL		
OPERATION ON/OFF	POWER SWITCH AND RESET SWITCH	
OUTPUT DELAY TIME	-----	5 SEC OR SETTING
SERVICE BYPASS SYSTEM	MANUAL (Except 1-3 KVA)	ELECTRONIC
TEMPERATURE	0-50 °C	
RELATIVE HUMIDITY	0-95 %	

*Specifications are subject to change without prior notice.
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MODEL	DIMENSION (WxHxD) CM.
SR-212V	26 x 22 x 38
SR-313V	32 x 22 x 51
SR-515V	25 x 62 x 51
SR-616V	35 x 65 x 65
SR-717V	53.5 x 114 x 61
SR-818V	53.5 x 145.5 x 61
SR-919V	62 x 132 x 75.5



DIMENSION

SILICON
POWER SUPPLY