

# SVR

Single Phase (5-30kVA)  
Three Phase (15-120kVA)

- Thyristor Controlled Technology
- Microprocessor Controller
- Wide Input Voltage Range
- Reliable Output Voltage Stability
- Overload Capability up to 130% Load
- Electronic Control
- *Swif response to voltage fluctuations*
- *High Efficiency*
- Manual Bypass Switch
- Operation Capability at high Temperature and Humidity
- Short Circuit and Overload Protection



Static Voltage Regulator ( SVR ) is designed to protect your electrical equipment from voltage fluctuations of the mains. The working mechanism of SVR is different from the classic automatic servo voltage regulator. Instead of a mechanical system causing the changes , the direct triggering of a fast thyristor is responsible for an accelerated response. SVR is composed of a transformer, semiconductor switch power unit which triggers this transformer, and microprocessor block which acts as a control and user interface.

SVR operation is based on coil selecting principle, which means supplying the consumer machine with auto transformer coils inside of it. It ensure machines (like motors, rectifier, and air conditioner) to operate properly and safely with selecting coil if a fluctuation and a deviation occurs in mains.

Furthermore the possibility of corrosion, calibration and maintenance requirements can be avoided.

The input voltage, output voltage ( if regulator is in operation ), output current, mains frequency can be observed from the Panel. Besides; the following information can be also obtained from SVR; Load on bypass or regulator, indication for availability of input for bypass, overload indication.

Options (available for all power range)

- Normal Range (between 150 to 265VAC)
- Wide Range (between 110 to 270VAC)
- Special Range (between 90 to 285VAC)
- Output voltage tolerance 2% and 5% options are available

# SVR Specifications

## STATIC VOLTAGE REGULATOR TECHNICAL SPECIFICATIONS

MODEL	SINGLE PHASE					THREEPHASE							
	5	7.5	10	15	20	30	10.5	15	22.5	30	60	90	120
<b>OUTPUT POWER(KVA)</b>	5	7.5	10	15	20	30	10.5	15	22.5	30	60	90	120
<b>INPUT</b>													
Voltage	220 Vac 1 ph												
Voltage Range (Normal range)*	150-260 Vac												
Voltage Range(Wide range)*	110-270 Vac												
Voltage Range(Special range)*	90-285 Vac												
Frequency	50/60 Hz												
Frequency Tolerance	±%5												
Current (max) normal range*	32	47	66	94	125	188	22.0	32	47	66	125	188	250
Current (max) wide range*	46	68	91	136	182	273	32.0	46	68	91	182	273	364
Current (max)special range*	56	83	111	167	222	333	39.0	56	83	111	222	333	444
<b>OUTPUT</b>													
Voltage	220V AC 1 ph												
Voltage Tolerance	±%3 ( ±%2 and ±%5 optional )												
Response Time	320V / sec ( @ ±%3 voltage accuracy )												
Frequency	50 Hz												
Power Factor	1												
Crest Factor	3												
Current (max per phase)	23	34	46	68	91	136	16	23	34	46	91	136	181
Overload													
%100 / %115	10min												
%115 / %130	1min%												
> %130	Bypass												
<b>EFFICIENCY</b>	>95%												
<b>DISPLAY/ALARMS</b>													
7segment Display	Input Voltage, Output Voltage, Output Current, Frequency, Fault Codes, Temperature												
LED Display	"Input Out Of Range, Regulator Operation, Bypass Operation regulator on, regulator off"												
Alarms	"INPUT VOLTAGE LOW; INPUT VOLTAGE HIGH; OUTPUT VOLTAGE LOW; OUTPUT VOLTAGE HIGH; OUTPUT CURRENT HIGH; BYPASS OVER CURRENT; FREQUENCY OUT OF RANGE"												
<b>COMMUNICATION</b>													
Dry Contacts	Regulator Operation and Mains present Signals												
From 1m	<50 dB (A)												
<b>ENVIRONMENTAL CONDITIONS</b>													
Temperature													
Operating	0°C.....+40°C												
Storage	-30°C.....+75°C												
Relative Humidity													
Operating	%20.....%90												
Storage	%20.....%95												
Protection	IP20												
<b>PHYSICAL SPECIFICATIONS</b>													
Dimensions(mm) WxDxH	505x500x317	545x500x417	530x660x808	380x500x960	552x610x1115	735 x 895 x 1520							

\* the specifications are indicated as per 220VAC Output Voltage Value, these values may vary for 230V or 240V output voltage applications.