

SVR Series

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

- ▶ Thyristor Controlled Technology
- ▶ Microprocessor Controller
- ▶ Wide Input Voltage Range
- ▶ Reliable Output Voltage Stability
- ▶ Overload Capability up to 130% Load
- ▶ Electronic Control
- ▶ Swift 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 an 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)
- Output voltage tolerance 2% and 5% options are available

Static Voltage Regulator Technical Specifications

MODEL	SINGLE PHASE						THREE PHASE						
	SVR050I	SVR070I	SVR100I	SVR150I	SVR200I	SVR300I	SVR1003	SVR1503	SVR2203	SVR3003	SVR6003	SVR9003	SVR12003
NORMAL RANGE	SVR050I	SVR070I	SVR100I	SVR150I	SVR200I	SVR300I	SVR1003	SVR1503	SVR2203	SVR3003	SVR6003	SVR9003	SVR12003
WIDE RANGE	SVR050Iw	SVR070Iw	SVR100Iw	SVR150Iw	SVR200Iw	SVR300Iw	SVR1003w	SVR1503w	SVR2203w	SVR3003w	SVR6003w	SVR9003w	SVR12003w
Power (kVA)	5	7,5	10	15	20	30	10,5	15	22,5	30	60	90	120
INPUT													
Voltage	220 Vac 1 ph						380 Vac 3 ph						
Voltage Range (Normal range)*	150-260 Vac						260-450 Vac						
Voltage Range(Wide range)*	110-270 Vac						190-467 Vac						
Frequency	50/60 Hz						50 /60Hz						
Frequency Tolerance	±%5						±%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
OUTPUT													
Voltage	220V AC 1 ph						380V AC 3 ph						
Voltage Tolerance	±%3 (±%2 and ±%5 optional)						±%3 (±%2 and ±%5 optional)						
Response Time	320V / sec (@ ±%3 voltage accuracy)						320V / sec (@ ±%3 voltage accuracy)						
Frequency	50 Hz						50 Hz						
Power Factor	1						1						
Crest Factor	3						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						
EFFICIENCY													
							>95%						
DISPLAY/ALARMS													
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												
COMMUNICATION													
Dry Contacts	Regulator Operation and Mains present Signals												
From 1m	<50 dB (A)												
ENVIRONMENTAL CONDITIONS													
Temperature													
Operating	0°C.....+40°C												
Storage	-30°C.....+75°C												
Relative Humidity													
Operating	%20.....%90												
Storage	%20.....%95												
Protection	IP20												
PHYSICAL SPECIFICATIONS													
Dimensions (cm) WxDxH	50,5x50x31,7			54,5x50x41,7		53x66x80,8		38x50x96		55,2x61x111,5		73,5 x 89,5 x 152	

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