

SVR SERIES

Static Voltage Regulator

Single Phase (5-30 kVA), Three Phase (15-90 kVA)

- Wide Input Voltage Range
- Reliable Output Voltage Stability
- Microprocessor Controlled
- Overload Capability up to 130% Load
- Electronic Control
- Swift response to voltage fluctuations
- High efficiency
- Remote Monitoring through Serial and Dry Contact Port
- Manual Bypass Switch
- Operation Capability at high Temperature and Humidity
- Short Circuit and Overload Protection
- Spare parts guarantee for 10 years
- Reliable technical service support



Static Voltage Regulators (SVR) are designed to protect your electrical equipment from voltage fluctuations in the mains.

Working on the principle of “changing coils” , the SVR feeds the user equipment from its own auto – transformer. Coil changes prevent fluctuations in the supply voltage thus ensuring the safe operation of the electrical equipment.

The working mechanism is different from the classic automatic servo voltage regulator. Changes in the number of windings made by the servo motor in the AVR are controlled electronically by a thyristor. This is the most important reason for the increase in the speed of response to changes. Instead of a mechanical system causing the changes , the direct triggering of a fast thyristor is responsible for an accelerated response. Furthermore the possibility of corrosion , calibration and maintenance requirements can be avoided.

Protection against excessive current and short circuit.

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

Three types of SVR model is presented to client depending on Mains Voltage Variation:

- 1- Normal Range makes voltage regulation between 150 to 260VAC
- 2- Wide Range makes voltage regulation between 110 to 270VAC
- 3- Special Range makes voltage regulation between 90 to 285VAC

19" Rack Mountable type, Industrial Type and With Castors Type for Individual Uses are available upon request.

inform
“Uninterruptible Energy”



SVR (STATIC VOLTAGE REGULATOR)SERIES SPECIFICATIONS

MODEL											
	SINGLE PHASE						THREE PHASE				
OUTPUT POWER(kVA)	5	7.5	10	15	20	30	15	22.5	30	60	90
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				
Voltage Range(Special range)*	90-285 Vac						155-490 Vac				
Frequency	50/60 Hz						50 /60Hz				
Frequency Tolerance	±%5						±%5				
Current (max) normal range*	32	47	66	94	125	188	32	47	66	125	188
Current (max) wide range*	46	68	91	136	182	273	46	68	91	182	273
Current (max)special range*	56	83	111	167	222	333	56	83	111	222	333
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)						320 V / 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	23	34	46	91	136
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	ER1 : INPUT VOLTAGE LOW										
	ER2 : INPUT VOLTAGEHIGH										
	ER3 :OUTPUT VOLTAGE LOW										
	ER4 : OUTPUT VOLTAGE HIGH										
	ER5 : OUTPUT CURRENT HIGH										
	ER6 : BYPASS OVER CURRENT										
	ER7 : FREQUENCY OUT OF RANGE										
COMMUNICATION											
RS 232	Serial Port										
Dry Contacts	Regulator Operation and Mains present Indications										
AUDIBLE NOISE											
From 1m	<50 dB (A)										
ENVIRONMENTAL CONDITIONS											
Protection	IP20										
Temperature											
Operating	-10°C.....+40°C										
Storage	-30°C.....+75°C										
Relative Humidity											
Operating	%20.....%90										
Storage	%20.....%95										
PHYSICAL SPECIFICATIONS											
Dimensions(mm) WxDxH	505x500x317			545x500x417		530x660x808		552x610x1115		736x880x1520	

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