

# PESS SERVO VOLTAGE REGULATOR

SVR-33 10-500 kVA



## SVR-33

SVR-33 is Three phase servo controlled voltage regulator product of the PESS Company. The purpose of the SVR-33 is to provide stable mains voltage at the output.

SVR-33 is designed for harsh industrial environments and It has a reliable and robust structure.

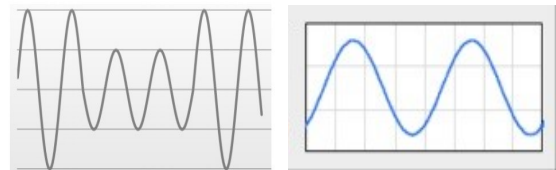
Typical application areas Industries, Energy, Constructions, IT systems, medical, Finance and others

### Applications :

- AC grid voltage regulation
- AC grid voltage balance

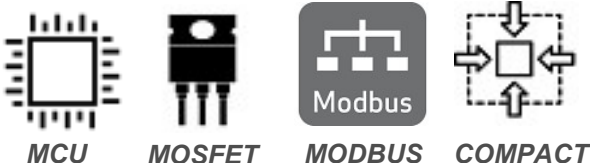
### Features :

- $\pm 10\%$  Adjustable output voltage over PC Control software
- Microcontroller based control
- Working with non-linear loads
- Mosfet controlled servo motor driver
- Modbus communication over RS485 communication struce
- Programmable Free alarm relay outputs
- Compact designed for space limited applications



### Special Features :

- Over voltage protection
- Over current protection
- High precision AC voltage balancing
- Automatic and manual bypass switching
- PC control software for calibration and communication



## SVR-11 Series Servo Regulator Technical specifications

INPUT		
Input power	1 - 100 kVA	
Input voltage range	220 VAC grids(3P+N)	176 - 265 VAC ( $\pm 20\%$ nominal)
	110 VAC grids(3P+N)	88 - 132 VAC ( $\pm 20\%$ nominal)
Operating frequency	45 - 65 Hz	
Input protections	Over current, Short circuit, Over voltage, Under voltage, Thermal protection	
OUTPUT		
Output voltage	220 VAC grids(3P+N)	218 - 222 VAC ( $\pm 1\%$ nominal)
	110 VAC grids(3P+N)	109 - 111 VAC ( $\pm 1\%$ nominal)
Overload	%200 load in 10 seconds	
Correction speed	90 V/s in $\pm 20\%$ nominal input range	
Output protections	Over current, Short circuit, Over voltage, Under voltage, Thermal protection	
General		
IP Standarts	IP21 cabinet(upto IP42 optional)	
Cabinet color	Default color RAL 7035 Light grey	
cooling	Natural cooling up to 60 kVA, Forced air cooling wih fans after 60 kVA	
Efficiency	>97 at full load ratings	
Mechanical bypass	Automatic and Manual	
Environmental		
Operating temperature	-25 °C / +55 °C	
Storage temperature	-40 °C / +80 °C	
Humudity	<%96	
IP class	IP21(upto IP42 optional)	
Noise level	<60 dB	
Dimensions		
	Up to 60 kVA	After 60 kVA
WxDxH (mm)	800x800x1600	800x2400x2050



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