

# Stabilizer Series

## SV3K11 TO SV175K33



### Features

- Servo type voltage regulator
- Input: wide range  $\pm 15\%$  with standard Delta / Delta, Delta / Wye, and Wye / Wye three phase designs
- Extremely tight voltage regulation available for sensitive loads
- Regulation with no wave form distortion
- Shielded isolation transformer (H class  $180^{\circ}\text{C}$ )
- Automatic over and under voltage protection
- Built-in surge suppressor (MOVs)
- High overload capability
- Efficiency: Low impedance design with a typical efficiency of 97%
- Modular design

- Low maintenance cost
- Control circuit bypass switch
- Extremely tight voltage regulation available for sensitive loads
- Regulation with no wave form distortion
- Enclosure design minimizes audible noise

### Applications

- Factory Automation Equipment
- Factory Automation Process Control

### Specifications

Model Name	SS3K11	SS5K11	SS7.5K11	SS10K11	SS15K11	SS20K11
<b>Topology</b>	Low Frequency / Servo Type					
<b>Power Factor</b>	0.97					
<b>Maximum Capacity</b>	3000VA	5000VA	7500VA	10KVA	15KVA	20KVA
<b>AC INPUT</b>						
<b>Input Voltage</b>	1Ø2w: 110, 220, 380, 415V; 1Ø3w: 110 / 220, 120 / 240V					
<b>Input Frequency</b>	50 or 60Hz $\pm 5\%$					
<b>Phase</b>	1Ø2w, 1Ø3w					
<b>Input Voltage Range</b>	+15% ~ -15%; +10% ~ -20%; +20% ~ -20%; +20% ~ -30%					
<b>Power Factor</b>	100%					
<b>AC OUTPUT</b>						
<b>Output Voltage</b>	1Ø2w: 110, 220, 380, 415V; 1Ø3w: 110 / 220, 120 / 240V					
<b>Output Frequency</b>	50 or 60Hz $\pm 5\%$					
<b>Phase</b>	1Ø2w, 1Ø3w					
<b>Output Regulation</b>	$\pm 1\%$ or better					
<b>Correction Rate</b>	$\pm 10\%$					
<b>Wave Distortion</b>	No wave form distortion					
<b>Harmonic Distortion</b>	None added to system					
<b>Efficiency</b>	97% up at full load (typical)					
<b>Response</b>	100ms ~ 3 sec. (10% Overload, 1 hours; 25% Overload, 10 minutes; 50% Overload, 1 minute)					
<b>Load Power Factor</b>	0 lagging to 0 leading					
<b>Protection</b>	Over / Under voltage, Overload, Phase Sequence Error, Overheat, Short circuit, Manual Restart, Maintenance Bypass Switch, High Energy Surge Absorber					
<b>ADVANCED WARNINGS / DIAGNOSTICS</b>						
<b>Front Panel</b>	Voltage meter, Current meter					
<b>Audible Alarms</b>	Less than 60 dBA at 1m					
<b>ENVIRONMENTAL</b>						
<b>Operation Temperature</b>	10~40°C / 50~104°F					
<b>Operating Altitude</b>	1,000 meter without deracinating					
<b>Relative Humidity</b>	0~90%.non-condensing					
<b>Cooling</b>	Self cooling or fan assisted					
<b>Heat Dissipation (Kcal)</b>	102.3	170.5	255.75	341	511.5	682

Specifications are subject to change without notice.

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# Stabilizer Series

## SV5K33 TO SV175K33

### Specifications

Model Name	SS5K33	SS7.5K33	SS10K33	SS15K33	SS20K33	SS30K33	SS45K33	SS60K33	SS75K33	SS100K33	SS125K33	SS150K33	SS175K33
Topology	Low Frequency / Servo Type												
Power Factor	0.97												
Maximum Capacity	5000VA	7500VA	10KVA	15KVA	20KVA	30KVA	45KVA	60KVA	75KVA	100KVA	125KVA	150KVA	175KVA
<b>AC INPUT</b>													
Input Voltage	3Ø3w: 220, 380, 415, 440V 3Ø4w: 190 / 110, 220 / 11, 208 / 120, 133 / 230, 220 / 380, 231 / 400, 240 / 415, 254 / 440V												
Input Frequency	50 or 60Hz±5%												
Phase	3Ø3w, 3Ø4w												
Input Voltage Range	+15% ~ -15%; +10% ~ -20%; +20% ~ -20%; +20% ~ -30%												
Power Factor	100%												
<b>AC OUTPUT</b>													
Output Voltage	3Ø3w: 220, 380, 415, 440V 3Ø4w: 190 / 110, 220 / 115, 208 / 120, 133 / 230, 220 / 380, 231 / 400, 240 / 415, 254 / 440V												
Output Frequency	50 or 60Hz±5%												
Phase	3Ø3w, 3Ø4w												
Output Regulation	±1% or better												
Correction Rate	±10 %												
Wave Distortion	No wave form distortion												
Harmonic Distortion	None added to system												
Efficiency	97% up at full load (typical)												
Response	100ms ~ 3 sec. (10% Overload, 1 hours; 25% Overload, 10 minutes; 50% Overload, 1 minute)												
Load Power Factor	0 lagging to 0 leading												
Protection	Over / Under voltage, Overload, Phase Sequence Error, Overheat, Short circuit, Manual Restart, Maintenance Bypass Switch, High Energy Surge Absorber												
<b>ADVANCED WARNINGS / DIAGNOSTICS</b>													
Front Panel	Voltage meter, Current meter												
Audible Alarms	Less than 60 dBA at 1 m												
<b>ENVIRONMENTAL</b>													
Operation Temperature	10~40°C / 50~104°F												
Operating Altitude	1,000 meter without derating												
Relative Humidity	0~90%, non-condensing												
Cooling	Self cooling or fan assisted												
Heat Dissipation (Kcal)	170.5	255.75	341	511.5	682	1023	1534.5	2046	2557.5	3410	4262.5	5115	5967.5

# Stabilizer Series

## SV200K33 TO SS1250K33



### Features

- Input: wide range  $\pm 15\%$  with standard Delta / Delta or Wye / Wye three phase designs
- Extremely tight voltage regulation available for sensitive loads
- Regulation with no wave form distortion
- No addition harmonic distortion
- Automatic command control
- Rugged construction
- High power factor
- High overload capability
- Efficiency: Low impedance design with a typical efficiency of 98%
- Modular design
- Low maintenance costs
- Optimal reliability, simple concept
- Enclosure design minimizes audible noise

### Applications

- Anodizing and plating
- Automotive parts
- Cement manufacturing
- Compressor
- Electrochemical processes
- High-voltage power supplies
- Induction heaters
- Machine-tool control
- Manufacturing and testing
- Medical equipment
- Metalworking machinery
- Motor testing
- Pumps
- Radiant heaters

### Specifications

Model Name	SS200K33	SS300K33	SS400K33	SS500K33	SS600K33	SS800K33	SS1000K33	SS1250K33
<b>Topology</b>	Low Frequency / Induction							
<b>Power Factor</b>	0.98							
<b>Maximum Capacity</b>	200KVA	300KVA	400KVA	500KVA	600KVA	800KVA	1000KVA	1250KVA
<b>AC INPUT</b>								
<b>Input Voltage</b>	3 $\phi$ 3w: 220, 380, 415, 440V; 3 $\phi$ 4w: 190 / 110, 200 / 115, 208 / 120, 230 / 133, 380 / 220, 400 / 231, 415 / 240, 440 / 254V							
<b>Input Frequency</b>	50 or 60Hz $\pm 5\%$							
<b>Phase</b>	3 $\phi$ 3w, 3 $\phi$ 4w							
<b>Input Voltage Range</b>	+15% ~ -15%; +10% ~ -20%.							
<b>Power Factor</b>	100%							
<b>AC OUTPUT</b>								
<b>Output Voltage</b>	3 $\phi$ 3w: 220, 380, 415, 440V; 3 $\phi$ 4w: 190 / 110, 200 / 115, 208 / 120, 230 / 133, 380 / 220, 400 / 231, 415 / 240, 440 / 254V							
<b>Output Frequency</b>	50 or 60Hz $\pm 5\%$							
<b>Phase</b>	3 $\phi$ 3w, 3 $\phi$ 4w							
<b>Output Regulation</b>	$\pm 2\%$ or better							
<b>Correction Rate</b>	$\pm 10\%$							
<b>Wave Distortion</b>	No wave form distortion							
<b>Harmonic Distortion</b>	None added to system							
<b>Efficiency</b>	98 % up at full load typical							
<b>Response</b>	100ms ~ 3 sec. (10% Overload, 1 hours; 25% Overload, 10 minutes; 50% Overload, 1 minute)							
<b>Load Power Factor</b>	0 lagging to 0 leading							
<b>Protection</b>	Manual control, Limit switch, Over / under voltage signal, Overheat signal, Pressure relief device, control source fuse							
<b>ADVANCED WARNINGS / DIAGNOSTICS</b>								
<b>Front Panel</b>	Input / Output voltage meter, Output current meter, Oil valve gauge, Thermometer							
<b>Audible Alarms</b>	Less than 75 dBA at 2 m							
<b>ENVIRONMENTAL</b>								
<b>Operation Temperature</b>	10~40°C / 50~104°F							
<b>Operating Altitude</b>	1,000 meter without derating							
<b>Relative Humidity</b>	0~90%, non-condensing							
<b>Cooling</b>	Oil cooling							
<b>Heat Dissipation (Kcal)</b>	6820	10030	13640	17050	20460	27280	34100	42625

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# Stabilizer Series

## SV1500K33 TO SV5000K33

### Specifications

Model Name	SS1500K33	SS2000K33	SS2500K33	SS3000K33	SS4000K33	SS5000K33
<b>Topology</b>	Low Frequency / Induction					
<b>Power Factor</b>	0.98					
<b>Maximum Capacity</b>	1500KVA	2000KVA	2500KVA	3000KVA	4000KVA	5000KVA
<b>AC INPUT</b>						
<b>Input Voltage</b>	3Ø3w: 220, 380, 415, 440V; 3Ø4w: 190 / 110, 200 / 115, 208 / 120, 230 / 133, 380 / 220, 400 / 231, 415 / 240, 440 / 254V					
<b>Input Frequency</b>	50 or 60Hz±5%					
<b>Phase</b>	3Ø3w, 3Ø4w					
<b>Input Voltage Range</b>	+15% ~ -15%, +10% ~ -20%.					
<b>Power Factor</b>	100%					
<b>AC OUTPUT</b>						
<b>Output Voltage</b>	3Ø3w: 220, 380, 415, 440V; 3Ø4w: 190 / 110, 200 / 115, 208 / 120, 230 / 133, 380 / 220, 400 / 231, 415 / 240, 440 / 254V					
<b>Output Frequency</b>	50 or 60Hz±5%					
<b>Phase</b>	3Ø3w, 3Ø4w					
<b>Output Regulation</b>	±2 % or better					
<b>Correction Rate</b>	±10 %					
<b>Wave Distortion</b>	No wave form distortion					
<b>Harmonic Distortion</b>	None added to system					
<b>Efficiency</b>	98 % high at full load (typical)					
<b>Response</b>	100ms ~ 3 sec. (10% Overload, 1 hours; 25% Overload, 10 minutes; 50% Overload, 1 minute)					
<b>Load Power Factor</b>	0 lagging to 0 leading					
<b>Protection</b>	Manual control, Limit switch, Over / under voltage signal, Overheat signal, Pressure relief device, control source fuse					
<b>ADVANCED WARNINGS / DIAGNOSTICS</b>						
<b>Front Panel</b>	Input / Output voltage meter, Output current meter, Oil valve gauge, Thermometer					
<b>Audible Alarms</b>	Less than 75 dBA at 2 m					
<b>ENVIRONMENTAL</b>						
<b>Operation Temperature</b>	10~40°C / 50~104°F					
<b>Operating Altitude</b>	1,000 meter without derating					
<b>Relative Humidity</b>	0~90%,non-condensing					
<b>Cooling</b>	Oil cooling					
<b>Heat Dissipation (Kcal)</b>	51150	68200	85250	102300	136400	170500