



1000KVA STATIC VOLTAGE STABILIZER

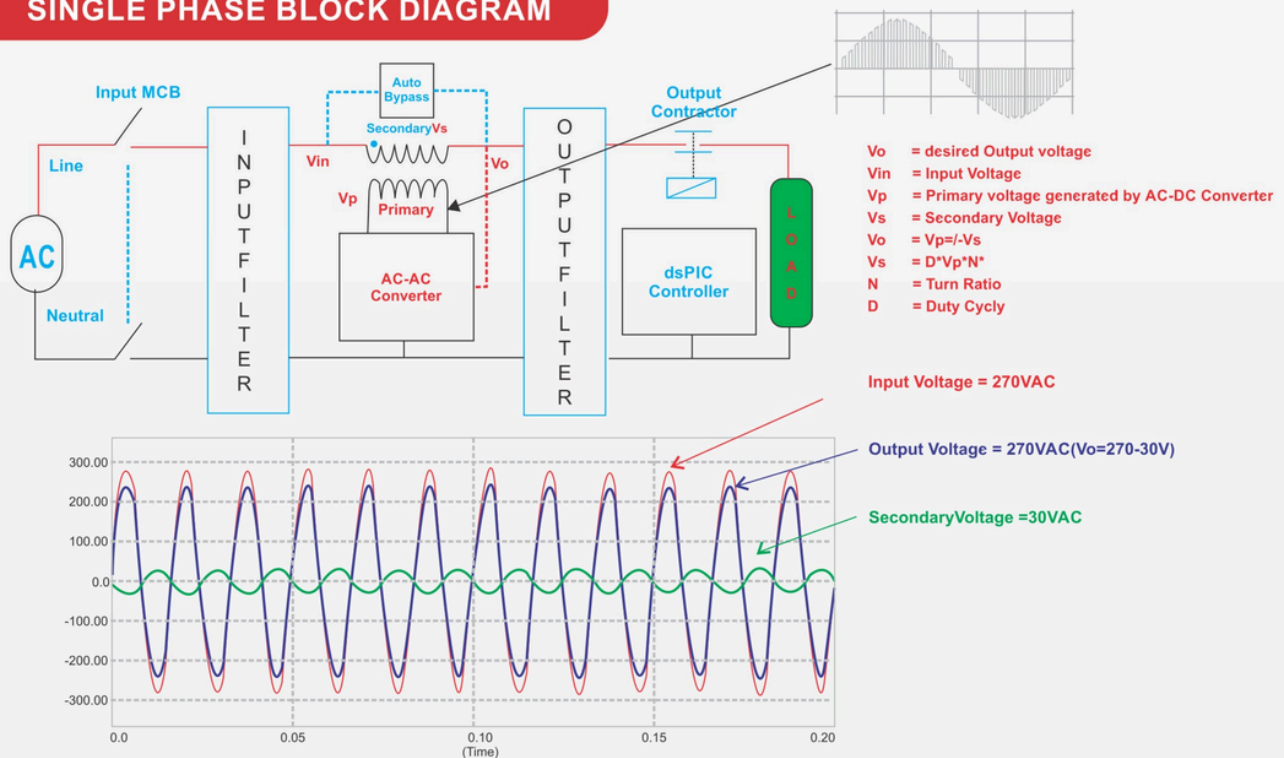
SERVO STABILIZERS | STATIC STABILIZER | DRY TYPE TRANSFORMER | DISTRIBUTION TRANSFORMER
FREQUENCY CONVERTERS | PHASE CONVERTERS | RECTIFIER | LV PANEL | SOLAR ENERGY SYSTEM



Application

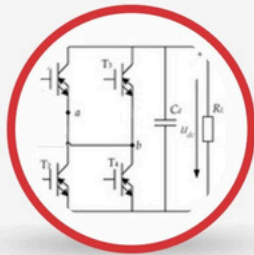
- 10 CNC & Robotics
- 10 Radar & Telecommunication
- 10 Auto & Auto Ancillary
- 10 R&D, Testing, Diagnostics
- 10 Oil & Gas
- 10 Plastic Processing
- 10 Textile Spinning, Processing
- 10 Printing & Packaging
- 10 Knitting Weaving
- 10 Building Management
- 10 Engineering & Process Industry
- 10 Security & Surveillance
- 10 Wood Cutting

SINGLE PHASE BLOCK DIAGRAM





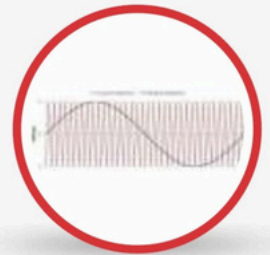
Fault Correction time
20msec



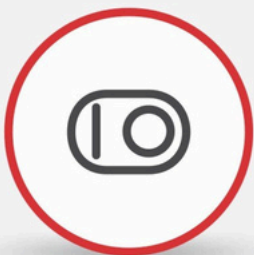
PWM based IGBT
Technology



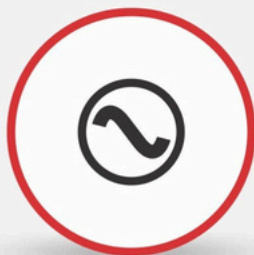
Mitigates Voltage
sags & swell



Chopping Freq
16-20kHz



Auto / Manual
bypass Switch



Selectable O/P
380v/400v/415v



Nominal operating
Voltage range



Relaxed operating
Voltage range

TECHNICAL SPECIFICATIONS

MODELS	bpSVR30	bpSVR45	bpSVR60	bpSVR75	bpSVR100	bpSVR120	bpSVR150	bpSVR200	bpSVR250
POWER	30 KVA	45 KVA	60 KVA	75 KVA	100 KVA	120 KVA	150 KVA	200 KVA	250 KVA
INPUT									
Input voltage range	Three-Phase + N; 380 - 400 - 415 Vac ± 20% (selectable from - 60% to + 30%)								
Frequency	45 - 65 Hz (Automatic frequency detection)								
Power factor	> 0,99								
Harmonic current distortion	No additional distortion								
Input current	60A	90A	120A	150A	200A	235A	300A	390A	490A
OUTPUT									
Output voltage	Three Phase + N; 380 - 400 - 415 Vac ± 1-3~% (selectable ± 1-2~%)								
Output current	45A	68A	90A	115A	150A	180A	225A	300A	380A
Output frequency	50 or 60 Hz (selectable)								
Protections	Over(peak, surge) and under voltage(sag), over current, short-circuit,								
Nominal power (kVA)	30	45	60	75	100	120	150	200	250
Active power (kW)	24	36	48	60	80	96	120	160	200
Number of phases	3 + N								
Nominal voltage	380 - 400 - 415 Vac -Three phase + N								
Ripple current	Zero								
Voltage distortion	< 1% with linear load / < 1% with non-linear load								
Overload	110% for 60i; 125% for 10i; 150% for 1i								
Response time	20 milisecond								
Efficiency	> 97%								
Harmonic distortion	No distortion								
Ambient temperature	ñ20°C to +50°C								
Relavite humidity	<95% non-condensing								
Noise level	Audible noise of 52ñ56 dB at 1 meter								
Filter	RFI-EMI Filter								
Standards	Safety: EN 62040-1-1 (Directive 2006/95/EC); EMC: EN 62040-2 (Directive 2004/108/EC)								
BYPASS	Available								
INFO FOR INSTALLATION									
Weight (kg)	115	145	185	220	275	300	415	550	700
Dimensions (WxDxH) (mm)	400 x 800 x 800		460 x 500 x 1130		500 x 700 x 1650			1150 x 950 x 1700	
Display	Graffic 2x16 LCD display (input- output voltage)								
Remote signals	dry contacts (configurable)								
Remote controls	Input MCCB and bypass (configurable)								
Isolation Transformers	Input and Output isolation Transformer (configurable)								
Communications	(Optional) RS232 + Rs485 + dry contacts + 2 slots for communications interface								
Colour	Dark grey RAL 7016, RAL 7035 or RAL 9005								
IP rating	IP20 (others on request)								
Moving the Regulator	transpallet								

LCD Front Panel; Front panel with mimic diagram in the information available about the status of the device at first glance. With LCD display accommodating the device input and output values (voltage, current, frequency) read each and can be calibrated. Upper and lower levels of operating voltage regulator, input voltage, the lower and upper levels, the lower and upper levels of the regulated output voltage, output voltage, the lower and upper levels of protection, extreme low and extreme high-voltage cut-off time, voltage calibration setting with the preference for negative and positive polarity macros password protection control of work and parameters can be presented to the user.

TECHNICAL SPECIFICATIONS

MODELS	bpSVR300	bpSVR400	bpSVR500	bpSVR600	bpSVR800	bpSVR1000	bpSVR1250	bpSVR1600	bpSVR2000
POWER	300 KVA	400 KVA	500 KVA	600 KVA	800 KVA	1000 KVA	1250 KVA	1600 KVA	2000 KVA
INPUT									
Input voltage range	Three-Phase + N; 380 - 400 - 415 Vac ± 20% (selectable from - 60% to + 30%)								
Frequency	45 - 65 Hz (Automatic frequency detection)								
Power factor	> 0,99								
Harmonic current distortion	No additional distortion								
Input current	590A	785A	980A	1175A	1570A	1960A	300A	2450A	3900A
OUTPUT									
Output voltage	Three Phase + N; 380 - 400 - 415 Vac ± 1-3~% (selectable ± 1-2~%)								
Output current	450A	600A	750A	900A	1200A	1500A	1900A	2400A	3000A
Output frequency	50 or 60 Hz (selectable)								
Protections	Over(peak, surge) and under voltage(sag), over current, short-circuit,								
Nominal power (kVA)	300	400	500	600	800	1000	1250	1600	2000
Active power (kW)	240	320	400	480	640	800	1000	1280	200
Number of phases	3 + N								
Nominal voltage	380 - 400 - 415 Vac -Three phase + N								
Ripple current	Zero								
Voltage distortion	< 1% with linear load / < 1% with non-linear load								
Overload	110% for 60i; 125% for 10i; 150% for 1i								
Response time	20 milisecond								
Efficiency	> 97%								
Harmonic distortion	No distortion								
Ambient temparature	ñ20°C to +50°C								
Relavite humidity	<95% non-condensing								
Noise level	Audible noise of 52ñ56 dB at 1 meter								
Filter	RFI-EMI Filter								
Standards	Safety: EN 62040-1-1 (Directive 2006/95/EC); EMC: EN 62040-2 (Directive 2004/108/EC)								
BYPASS	Available								
INFO FOR INSTALLATION									
Weight (kg)	800	1145	1350	1600	1900	2150	2750	3900	4250
Dimensions (WxDxH) (mm)	1150 x 950 x 1700	1400 x 950 x 1700			1900 x 900 x 1850		3000 x 1100 x 2100		
Display	Graffic 2x16 LCD display (input- output voltage)								
Remote signals	dry contacts (configurable)								
Remote controls	Input MCCB and bypass (configurable)								
Isolation Transformers	Input and Output isolation Transformer (configurable)								
Communications	(Optional) RS232 + Rs485 + dry contacts + 2 slots for communications interface								
Colour	Dark grey RAL 7016, RAL 7035 or RAL 9005								
IP rating	IP20 (others on request)								
Moving the Regulator	transpallet								

LCD Front Panel; Front panel with mimic diagram in the information available about the status of the device at first glance. With LCD display accommodating the device input and output values (voltage, current, frequency) read each and can be calibrated. Upper and lower levels of operating voltage regulator, input voltage, the lower and upper levels, the lower and upper levels of the regulated output voltage, output voltage, the lower and upper levels of protection, extreme low and extreme high-voltage cut-off time, voltage calibration setting with the preference for negative and positive polarity macros password protection control of work and parameters can be presented to the user.



The Industrial grade AIPC protects the connected equipment from

- ▶ Frequency variations
- ▶ Voltage fluctuations
- ▶ Under voltage
- ▶ Over voltage
- ▶ Neutral drifts
- ▶ Voltage sag
- ▶ Surges
- ▶ Spikes
- ▶ Lightning

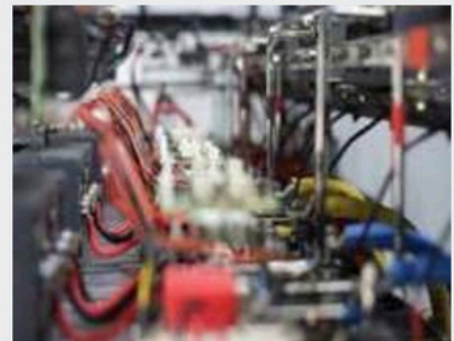
Premature equipment failure, abrupt process interruption etc are the tangible effects of low power quality. Even though the effects are not immediately perceived, **the equipment life expectancy is cut short by 30%-40%** due to compromised quality of power.



▶ INDUSTRIAL GRADE
DESIGNED FOR
HARSH ENVIRONMENT



▶ STATIC **HIGH-SPEED**
VOLTAGE STABILIZATION
USING IGBT



▶ UNITY POWER FACTOR
CORRECTION
100% INDIGENOUS DESIGN.

Justify the investment done on the infrastructure by providing impurity-free, high grade of power which is the fuel for your infrastructure for optimum product life & process uptime.



**ENHANCES EQUIPMENT
LIFE BY 30%-40%.**



AIPC303 10KVA - 200KVA

- ▶ Fully DSP controlled, IGBT technology
- ▶ Automatic input phase reversal correction
- ▶ Single phase prevention
- ▶ Input Power Factor corrected to near Unity
- ▶ Raw power voltage THD is corrected
- ▶ Acts as a constant frequency source
- ▶ Protection against lightning and neutral drifts

High Accuracy Voltage Conditioner

400VAC 1% with a correction speed of 300V/5ms-20ms In comparison the Servo-controlled Voltage Stabiliser has a maximum correction speed of 70V/sec & the AIPC is faster by 100 times.

▶ Constant Output Frequency

50HZ $\pm$ 1% With an input frequency variations from 45-55Hz.

▶ Fail-safe protection against lightning.

Also against neutral drifts, impurities in the input.

▶ Output Voltage THD- <5%

Input voltage THD in Industrial areas varies from of 7-10

10KVA - 2000 KVA

Series Industrial Power - Conditioner

TECHNICAL SPECIFICATIONS

TECHNOLOGY		DSP based, Power-conditioning technology using IGBT.
RATING		10KVA - 2000KVA
INPUT		
Input Voltage		415VAC, 3Ø & N
Input Voltage Window		330VAC - 470VAC
Input Frequency		45-55Hz
Input PF	100% load	> 0.99 / <10% THDi.
Topology		IGBT based MPWM with instantaneous Sinewave Control
Output PF		08lagging to Unity
Nominal Voltage		400VAC
Regulation		($\pm$) 1%
Frequency		50 Hz $\pm$ 0.1Hz
Waveform		True Sinewave
Total	Linear Load	< 1.5%
Harmonic	Non Linear Load	< 4%
Transient Response		Remains within +/- 5% & recover to normal within 20 msec
Over Load Capacity	100%	Continuous
	125%	1 Minute
	150%	5 Seconds
Crest Factor		3:1
Mode of Operation		Designed for Continuous operation
ISOLATION		Complete galvanic isolation
BYPASS		
Manual Bypass		Provided
Static bypass		Provided
ALARMS		
		• Input / Low / Fail • Output overload • Over temperature
LED Indications (Single LED with multi function)		• Mains on • PC On • Overload
User Friendly LCD Display shows the following parameters		
		• Input Voltage • Output Voltage
		• Load current • Output Frequency