

Save on cost of **warranty & downtime** escalations.

OPTIMISE THE LIFE OF CNC & LASER MACHINES BY 30%-40%



Using **Power-Conditioner** instead of Servo stabiliser.

Servo controlled voltage stabilizer due to its slow response allows intolerant levels of high voltage to your critical loads (during the correction time) increasing the susceptibility of those equipment to premature failure.

The Power-Conditioner is 100 times faster and instantly corrects the voltage using IGBT.

AIPC303 10KVA - 200KVA

Conventional servo controlled voltage stabilizer offers **very poor response** to dynamic voltage fluctuations and allows **intolerant levels of high voltage** to your critical loads, (during the correction time) which could be the **reason for its premature failure**.

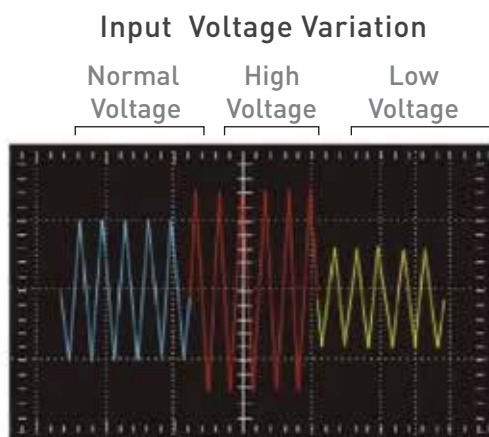
In a typical industrial environment it is a common phenomenon that the input voltage jumps from 360VAC to 450VAC or from 450VAC to 360VAC due to erratic load variation on the line.

A conventional servo stabilizer requires about 50 power cycles to regulate this large shoot and lag to acceptable levels.

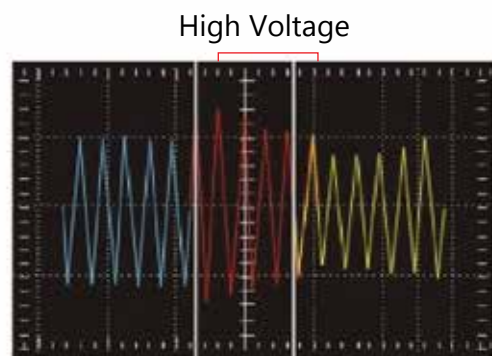
This means that the load has to bear high and low voltages for considerable amount of time, which can cause premature failure of the connected loads. Since the effect is probably not evident immediately this factor often gets unnoticed.



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

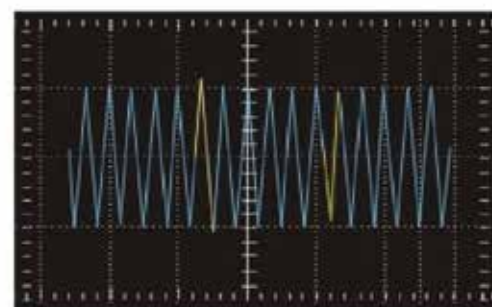


Output of
Conventional
SERVO
Stabiliser



Output Volatage of 490 VAC-415VAC
Correction Time of approximate one Minute

Output of
POWER
CONDITIONER



Power-Conditioner corrects the voltage instantaneously.

STATIC POWER-CONDITIONER USING IGBT



The Power-Conditioner maintains the output voltage within +1% with a very fast correction time (within 1/4th of a power cycle) using the state-of-art technology.



Static **High-Speed Voltage Stabilisation** using IGBT

POWER-CONDITIONER

Fully DSP controlled, IGBT technology.

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 Power-Conditioner is **faster by 100 times**.

FREQUENCY STABILISATION

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%.

POWER FACTOR CORRECTOR

Active Input Power Factor feature improves the load PF to near Unity; **improving power utilisation & saves electricity bills.**

AUTOMATIC INPUT PHASE REVERSAL CORRECTION

Conventional servo stabiliser trips if the input RYB phase sequence is changed which is a common phenomenon during utility maintenance or repair works. The machines would be down until phase sequence are physically interchanged.

Power-Conditioner automatically corrects the phase sequence without interruption.

● Power-Conditioner protects the connected equipment from

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

LEVEL OF PROTECTION	POWER-COCONDITIONER	VS	SERVO-CONTROLLED VOLTAGE STABILISER	REMARKS
Technology	Static devices IGBT based using DSP		Mechanical device Servo motor	Affects reliability
Power-Conditioning	Yes		No	Affects the life of the equipment significantly.
Voltage conditioning	Excellent		Medium	
	Instantaneous correction 100 times faster		Very poor speed 70V/60sec	
Frequency stabilisation	Excellent		No	
Input voltage THD correction	Yes		No	
Protections				
Lightning	Yes		Medium	Affects the life of the equipment significantly.
Neutral drift	Yes		No	
Input high voltage	Yes		Medium	
Input Power factor correction	Yes		No	Affects power utilisation & electricity bills
Input phase reversal auto correction	Yes		No	Leads to equipment downtime
Power Quality delivered	Excellent		Medium	

A FEW OF APPROVED VENDOR FOR

Our esteemed customers have been using AIPC for various applications across the country from past 19yrs and have certified the performance of the same.



Panorama



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