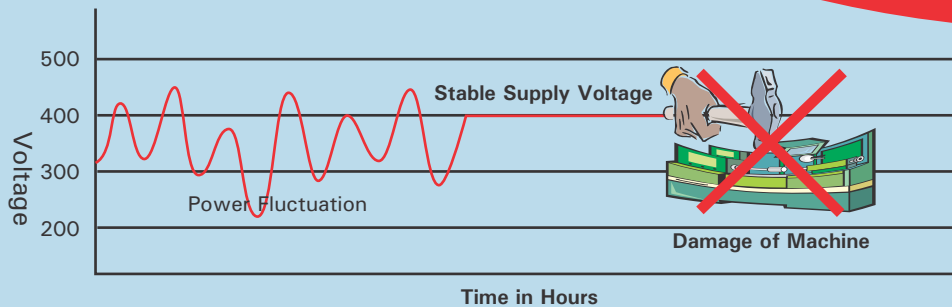




# SERVO STABILISER



## INTRODUCTION

NIFA ELECTRONICS Began outlining sound company framework, built on professional lines way back in 1991. NIFA ELECTRONICS has grown by leaps and bounds in exponential manner to become one of the major player in the field of POWER CONDITIONING, POWER MANAGEMENT & Allied Technical Services..

## BRIEF ABOUT SERVO STABILISER

"Nitel" Servo Stabilisers come to you from professionals with almost decade of experience in power conditioning industry..

"Nitel" Servo Stabilisers are readily recommended, by a number of leading CNC, Textile, Printing and other machinery manufactures who has complete faith in "Nitel" protection for their expensive and sensitive equipment. When you buy a "Nitel" Power Conditioning Products, you not only get a time tested and reliable product, but also the backing of a very professional organization with an excellent track record for customer satisfaction.

## APPLICATIONS

- **Office automation** - computers, photo copiers, EPABX, FAX, etc
- **Health Care** - ultra sound scanners, treadmill, patient monitoring systems, refractometer, blood analysers, etc.
- **Q.C/R&D** - spectrophotometer, chromatograph, Centrifuge, etc.
- **Photo processing** - colour film developing and printing.
- **Studio Equipment** - sound and picture dubbing and reproducing equipment.
- **Manufacturing** - control panels of machine tools, printing, leather, textile and granite processing machines, etc.
- **CNC Machine tools** - Lathes, Drilling, Machining Centres, EDM, Wirecut, etc.
- **Textile machines** - OE Spinning, Autoconer, Drawframe, Carding, Knitting and Embroidery machines.
- **Printing machines** - Offset colour printing, paper cutting.
- **Packaging machines** - Form, Fill and seal Blister Packing
- **Medical Instruments** - CT Scan, MRI, NMR
- **Air** - conditioning Package Airconditioners



## TECHNICAL SPECIFICATIONS - 1 PHASE

1. Input voltage range	: 170 V to 207 V
2. Nominal Output Voltage	: 230 V Internally settable to 220 V or 240 V
3. Input frequency range	: 47 to 53 Hz
4. Output voltage regulation	: + 1% of nominal voltage
5. Average correction rate	: 35 V/Sec
6. Waveform distortion	: Nil
7. Effect of load power factor on output voltage	: Nil
8. Output voltage indication	: Digital voltmeter
9. Resolution of digital voltmeter	: 1 Volt
10. Accuracy of digital voltmeter	: + 0.5% of full scale, + 1 digit
11. Electronic under / over voltage protection	: With graded time delay
12. Servo motor drive	: A.C. Stepper motor
13. Electronic overload cut off	: 110% of rated output current with graded time delay
14. Non - latching LED indications	: Input present - high / low, Output normal
15. Latching LED indications for cut off	: Output - high / low / overload
16. Resetting mode	: Manual with option for automatic restart
17. Resetting indication (in manual mode)	Visual : Through flashing LED Audible : Through intermittent beeper
18. Standard kVA ratings	: 1, 2, 3, 4, 5, 7.5, 10, 15 & 20

## SALIENT FEATURES

- **Digital Voltmeter** - Offers clear proof of the output accuracy of the stabilizer.
- **Electronic under/over voltage cut off** - Voltage sensing at the output and duplicated circuitry for maximum reliability.
- **Electronic overload cut off** - Current sensing using a current transformer for reliable operation at different ambient temperatures.
- **Visual & Audio alert** - Flashing LED and beeper to indicate resumption of regulated supply.
- **Fault Annuciation** - Green, Amber and Red LEDs for normal, caution and cut off indications to give appropriate information on the input/output status.
- **RFI Filter and spike Suppressor (Optional at extra cost)** - For protection of electronic circuits against RF Interferences, Spikes and Surges in the Common and Transverse Mode

## PRODUCT RANGE

- Online UPS
- HT & LT Industrial AVR
- Servo Stabiliser
- Ultra Isolation Transformer
- Automatic Power Factor Control Panel
- Maximum Demand Control Panel
- Special Control Panels

## SERVICES

- Power Quality Management
- Energy Audit Study

## TECHNICAL SPECIFICATIONS - 3 PHASE

1. Input Voltage range	: 360 V - 460 V (standard) wide ranges available on request
2. Nominal output voltage	: 415 V Internally settable to 380 V or 415 V
3. Input frequency range	: 47 Hz - 53 Hz
4. Type of Stabiliser	: Suitable for unbalanced loads and input voltages.
5. Output voltage regulation	: $\pm 1\%$ of nominal voltage
6. Correction rate	: 25V / Sec
7. Servo motor drive	: A.C. Synchronous Stepper motor
8. Efficiency	: > 95%
9. Output voltage indication	: Digital voltmeter
10. Resolution	: 1 V
11. Accuracy	: 0.5% $\pm$ 1 digit
12. Electronic under / over Voltage	: With graded time delay
13. Electronic overload cut off	: 110% rated output current with graded time delay
14. Single phasing prevention	: By voltage sensing method.
15. Non - latching LED indications	: Input present - high / low, Output normal
16. Latching LED indications for cut off	: Output - high / low / overload
17. Resetting Mode	: Manual with option for automatic restart
18. Resetting Indication (in manual mode)	Visual : Through flashing LED Audible : Through intermittent Beeper
19. Housing	: Rack with castor wheels designed to protect against ingress of foreign particles
20. Standard kVA ratings	: 3 to 100 kVA

## ADDITIONAL FEATURES

- Suitable for balanced and unbalanced loads with independent correction in each phase.
- Complete protection with electronic under/over voltage, over load, short circuit and single phasing trip.
- Change - over Switch for manual by pass.
- Unique chassis design to prevent ingress of foreign particles such as machine turnings, lubricants, etc.

## CUSTOMER SUPPORT

Centrally located in Ahmedabad, the customer support division remains consistent in progressively adding to its well-deserved reputation, spurred by a scientific spirit, entire team of engineers & technicians involved in the maintenance operations, meticulously work to keep customer demands satisfied. Our commitment to the customer goes beyond executing the best possible equipment. To help assure the perfect match of product & application, we offer and extensive direct support at all levels.

\*We reserve the rights to change product specification without prior notice.



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