

# Neel Voltage Stabilizer. . .



... corrects voltage fluctuation before it damages your Hi-tech Machines



**Why take risk when you have Invested a fortune ?**

**THE DIFFERENCE**

FEATURES	NEEL	OTHERS	BENEFITS OF NEEL
Response Time	10 milli. sec.	60 - 100 milli. sec.	Both these parameters ensure that voltage fluctuations are corrected fast enough before they can damage the expensive machines.
Rate of Correction	upto 105 V/ sec.	upto 60 V/ sec.	
Type of Control	Variable speed high torque, D.C. servo motor & proportional type control circuits.	Low torque, A.C. constant speed motor driven by simple comparator generates voltage oscillation. ON/OFF operations through triac / relays generates spikes, which can cause failure of IGBT's, Transistors...etc used in drives;	Corrects voltage at speed related to rate of fluctuations, thus avoids oscillations, hunting... etc. No switching noises generated and hence safe.
Efficiency	98%	95%	Electrical consumption during running is low due to 3% improved efficiency thus saving substantial running cost. (Please refer the graph on reverse)
D. G. Set compatibility	Special sensing circuit to maintain constant voltage.	Output voltage can shift.	In case of power failure the Stabilizer will Perform suitably even with distorted DG input. Thus avoids nuisance tripping,
Standards	Conforming to Stringent Defence Standards JSS 55555	?	Ensures rugged & reliable operations under all types of climatic conditions.

## IN ADDITION

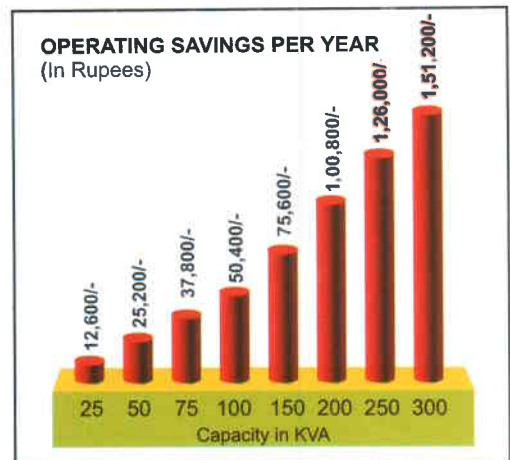
### Quality Assurance :

- ▶ All bought out components sourced from reputed manufacturers, conform to IS/BS/VDU Standards.
- ▶ 100% raw material inspection as per internal components manual. Individual assemblies and sub-assemblies tested separately.
- ▶ All electronic assemblies tested on full load at 55°C in oven for 48 hrs. to minimize failure.
- ▶ Final equipment tested for accelerated life test to identify and replace any weak link.

### Ease of Maintenance :

- ▶ Components easily accessible from all 4 sides and top.
- ▶ All control wirings properly ferruled for ease of identification.
- ▶ Detailed manual supplied with wiring diagrams, trouble shooting charts, installations and maintenance procedures.
- ▶ Plug-in-type fibre glass PCB's and modular construction.

### Energy Savings :



Estimated @Rs. 3.5 / KWH, 16 hrs / day, 300 days / years.

## ABOUT US

Over the last two decades we at NEEL have been specialising in providing quality power and its solutions. Close interaction with **CNC manufacturers like** HMT, KIRLOSKARS, BFW, ACE . . . and extensive study of Indian site conditions with **CNC bulk users like** MAHINDRA, TELCO, L&T, EICHER, SWARAJ, ESCORTS, ABB, BHEL, HAL, RAILWAYS, DEFENCE and SPACE ESTABLISHMENTS have helped us improve and perfect our innovative designs to suit rigorous Indian conditions. Manufacturing quality products for consistency of performance, high reliability and better quality of power as required by CNC machines has been a way of life with us.

Similar exposure to **Textile machine manufactures like** LMW, HIMSON, SCHLAFORSHT, HARISH and **Textile bulk users like** RAYMOND, VARDHAMAN, MIKAL FIBERS, AMLINE and many more have provided us with in-depth exposure to intricacies of power quality in this industry.

## GENERAL SPECIFICATIONS

Output voltage*	: 230 VAC for 1 phase 415 VAC for 3 phase 4 wire system.
Regulation	: +/- 1% or 0.5%
Supply frequency	: 47 - 53 Hz
Efficiency	: Better than 98%
Waveform distortion	: Nil
Effect of load power Factor	: Nil
Ambient	: 0-45°C max. relative humidity up to 90%
Environment	: Designed for indoor tropical use.
Enclosure	: IP 23.

Supply System	Input Voltage Range*	Rating
Single-phase	170-270 V	1, 2, 3, 5, 8, 10, 12.5, 16, 20 & 25 KVA air-cooled execution
Three-phase	340-480 V	5, 7, 10, 15, 20, 25, 30, 40, 50, 60, 75, 100, 125 & 150 KVA air-cooled execution 75, 100, 125, 150, 175, 200, 225, 250, 300, 350, 400, 500, 600, 750, 800, 1000, 1250 & 1500 KVA oil-cooled execution
	295 - 470 V	3.5, 7.5, 10, 15, 25, 30, 40, 50, 60, 75 & 100 KVA air-cooled execution 60, 75, 100, 125, 150, 200, 250, 300, 400, 500 & 1000 KVA oil-cooled execution

*Non standard voltage also available on request*

## EXPORT PERFORMANCE :

Exported to many countries namely Switzerland, UK, Russia, Iran, Malaysia, Africa, Ghana, Algeria, Kenya, Indonesia, Nepal, Bangladesh, Pakistan, Srilanka.

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### Products :

- SERVO VOLTAGE STABILIZER
- ULTRA ISOLATION TRANSFORMER
- UPS
- REAL TIME POWER FACTOR SYSTEMS
- GROUND LEAKAGE MONITORING SYSTEMS
- SURGE PROTECTORS
- POWER MONITORING & ANALYSIS

