

# Servo Controlled Voltage Stabilizer

**FOR INDUSTRIAL APPLICATIONS**



## **SERVO SERIES**

**1 PHASE : 1KVA - 20 KVA**

**3 PHASE : 3KVA - 2000 KVA**

- MICRO-CONTROLLER BASED
- DIGITAL/ LCD DISPLAY
- COMPREHENSIVE PROTECTION
- HIGH EFFICIENCY
- RUGGED DESIGN
- FOR UN-BALANCED LOADS

**An ISO 9001:2015 Certified Company**

## SERVO STABILIZER NT1A SERIES 1 PHASE (1KVA - 20KVA)

N-Dura Single Phase Servo Stabilizer uses a sophisticated micro-controller based control system that enables easy configuration of the servo stabilizers to meet user requirements. A comprehensive display communicates the status of the stabilizer at a glances.



**1 Phase Air-Cooled**



**3 Phase Air-Cooled**

## SERVO STABILIZER AIR-COOLED NT3A SERIES (3 PHASE) (3KVA - 40KVA)

N-Dura (3 Phase) Servo Stabilizer is designed to handle all type of industrial loads. The Stabilizer works on an advance Micro-Controller based (DSP) technology which control & stabilizes the load voltage & load current variation and also protects the machinery from both under/ over voltage, over-loading and phase reversal.

## SERVO STABILIZER OIL-COOLED NT30 SERIES (3 PHASE) (10 - 2000KVA)

Shakti Power Solutions Private Limited with a combined experience of more than 30 years providing innovative solutions to all your power conditioning requirements.

### Features:

- Fast Correction Rate and Very High Efficiency
- Works worldwide Input Frequency Range and no waveform distortion
- Auto-Manual Operation Facility
- Over Voltage and Under Voltage Indicators
- Unaffected by Load Power Factor.



**3 Phase Oil-Cooled**

# Technical specifications:

<b>Buck N Boost Series Transformer if required</b>	170V - 280V Standard - 1 Phase 340V - 470V Standard - 3 Phase Customized Range Available on Request
<b>Output Voltage</b>	400V ± 1% (Phase to Phase) Output Frequency
<b>Output Frequency</b>	Same as input Frequency
<b>Insulation</b>	Class A, Greater than 6m ohms
<b>Application</b>	Indoor Type
<b>Type</b>	Suitable for: 100% Un-Balanced Load & Supply
<b>Operating Temperature</b>	(-15°C) to (55°C)
<b>Type of Cooling</b>	Air-Cooled/ Oil-Cooled
<b>Type of Oil</b>	Mineral Oil as per IS:335:1953
<b>Speed of Correction</b>	22 v/sec
<b>Response Time</b>	Instantaneous (Milliseconds)
<b>Wave Form</b>	Same as Input
<b>Duty Cycle</b>	24 Hours (Continuous)
<b>Phase</b>	Single Phase, 2 Wires - 3 Phase, 4 Wires
<b>Standard</b>	IS 2026 & IS 9815
<b>Ingress Protection</b>	IP 55 (Indoor)
<b>Efficiency</b>	99%
<b>Relative Humidity</b>	95% Non-Condensing as per IS:9815:1994
<b>Mode of Operation</b>	Auto/ Manual
<b>Suitability</b>	Suitable for all Power Factors
<b>Losses at No Load</b>	0.4% of the Total Capacity
<b>Losses at Full Load</b>	1% of Full Load
<b>Laminations Used</b>	Imported Low Losses CRGO Lamination - M4 Grade
<b>Copper Used</b>	"Sterlite or Equivalent" 99.99% - Pure Electrolytic Grade
<b>Carbon Brushes Used</b>	Imported High Grade Graphite
<b>Class of Insulation</b>	Class A, Greater than 6m ohms
<b>Breakdown Strength</b>	2500Vac for 2 minutes (For Transformer)
<b>Variac</b>	Motorized Variac for each phases with copper wound on Toroidal CRGO Core, plan track for smooth movement of Carbon bush for firm contact & suitable torque Servo Motor
<b>Regulator</b>	Toroidal Type/ Linear Type
<b>Cabinet Finish</b>	Powder Coated Mild Steel Cabinet
<b>System Construction</b>	As Per IS:9815
<b>BBT</b>	CRGO Core Material 0.27mm (Thickness)
<b>Color</b>	SIEMENS GREY + BLUE

<b>Digital Micro Controlled Processor</b>	3 No's
<b>Based Control Card</b>	
<b>AC Synchronous Servo Motor</b>	3 No's
<b>Copper Wound Motorized Variable</b>	3 No's
<b>Auto Transformer, Wound On</b>	
<b>Toroidal CRGO Lamination with High</b>	
<b>Quality Graphite Carbon for Smooth</b>	
<b>Functioning</b>	
<b>Buck N Boost Series Transformer if required</b>	3 No's

\* Specifications are subject to change without prior notice.



**SERVO**  
**Designed as per Customer Requirement's**



**COMPANY  
PROFILE**



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