



Highlights

- Automatic Servo Motor Control
- Microprocessor Controlled
- Control Panel for Each Phase
- LCD Panel for Measurements
- 200 Vac / sec Correction Speed
- Wide Range of Input Voltage
- 0.5% Output Tolerance
- High Efficiency (98%)
- 250 C Resistant Transformer Windings
- High Speed Correction
- Smart Fan Cooling
- Sound and Light Alarm Indicator
- Adjustable Start Delay
- Adjustable Upper and Lower Limit
- Automatic Restart After Power Outage
- Standard By-Pass Switch
- High Quality Motor and Brushes
- 2 Years Warranty

Protector Automatic Servo Voltage Stabilizer 5 - 5000 kVA Technical Specifications

GENERAL		
Phase	Single-Phase	Three-Phase
Technology	Full Automatic Servo Motor and Variac Based Regulation	
Control	Microprocessor Controlled	
INPUT		
AC Voltage	220/230/240 Vac (or 110/120/127 Vac)	380/400/415 Vac (or 208/480/600 Vac)
Voltage Ranges	±20% (Narrow Range) -30%, +20% (Standard Range) -45%, +20% (Wide Range)	
Frequency	40 - 70 Hz	
Input Protection	Circuit Breaker, Optional: Lightning, Phase Protection	
OUTPUT		
Output Voltage	220/230/240 Vac (or 110/120/127 Vac)	380/400/415 Vac (or 208/480/600 Vac)
Output Accuracy	±0.5%	
Output Frequency	Same as Input Frequency	
Up and Low Limits	Digitally Adjustable	
Start Delay	Digitally Adjustable (1 sec accuracy)	
Variac Material	Pure Copper	
Transformer Material	Al or Pure Copper (as per request)	
Harmonic Distortion	0 % THDv, 0 % THDi	
Maintenance By-pass	Manual Switch Selector	
Automatic By-pass	Optional	
Recovery Time	90 ms at 170-220 Vac	
Overload Operation	100% - 125% load: 10 min, 125% - 150% load: 1 min, > 150% load: 30 sec	
Output Protection	Optional: Overload / Over Temp / Over and Low Voltage	
Efficiency	>98% at Full Load	
CONTROL PANEL		
Display	LCD Panel Display	
Displayed Parameters	Upper/Lower Limits, Output Voltage Adjustment	
Displayed Units	Input/Output Voltage, Delay Timer, Visual Alarm LED Optional: Input/Output Current, Frequency, Alarm Log	
Event Log	Optional with HMI Panel	
COMMUNICATION		
Optional	MODBUS, CANBUS, Dry Contacts, SNMP (Ethernet)	
Alarms	Audible and Visual Alarms	
LED Indicators	Input/Output Low/High, Overload (Optional)	
SAFETY and STANDARDS		
Over Voltage	IEEE 587 4500 A	
Interference Reduction	Class B	
Standards	2014/35/EU Low Voltage Directive, 2014/30/EU EMC Directive, ISO 9001, CE	
ENVIRONMENT		
Heat and Humidity	-10 C° / + 65 C°, 0 - 90% (non-condensing)	
Noise Level	Less than 65 dB at 1 mt	
Protection Level	IP42 Indoor Type, IP56 Outdoor Type	
Cooling	Natural Air Cooling	Forced Air Cooling with Axial Fans
Cabinet Color	RAL 7035 Standard (other colors are available on request)	

General Features

Microprocessor controlled servo type voltage stabilizer provides excellent voltage regulation, stable voltage to your critical loads like industrial and military devices, CNC machine tools, elevators, medical system etc.

Selectable voltage range, low voltage window can go up to 90 Vac to protect your load even in critical voltage levels. LCD screen to show output and input voltage, current, frequency. Each phase is controlled by separate control panel provides long lasting operation and low maintenance.