

### STATIC STABILIZER - 400KVA (360-470V)

#### DESCRIPTION

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Innovate power's Static Voltage Regulator with Precision (SVRP) is an automatic precision AC voltage regulator that ensures maintenance-free operation of electronic equipment over a wide input voltage range. The SVRP series is designed to provide high precision power with a typical response cum correction time of 20-30 milliseconds to comply with the requirements of the ITIC curve for power supply to electronics.

Three phase as well as single phase versions is available.

#### HOW VRP WORKS

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- The high frequency Insulated Gate Bipolar Transistor (IGBT) driven converter takes the incoming AC power, measures it against the nominal voltage reference and adds or subtracts voltage to achieve a precisely regulated 230 V output. The automatic bypass will be activated when there is a fault condition. Green LEDs are used to indicate Normal (regulating mode) operation.

#### FEATURES AND BENEFITS

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- Static technology results in quiet operation, high product up-time & low maintenance.
- Provides optimum voltage compensation, sag control ,swell control, spike & noise control.
- Provides output voltage to within  $\pm 1\%$  for superior regulation.
- Internal surge voltage protection assures trouble –free operation.
- AC input circuit breakers and load over current protection prevents costly equipment damage.
- Tight control over electronic card failures, data corruption and machine breakdowns result in higher productivity, lower operating costs, and greater consumer comfort.
- Lightweight and compact size makes for ease of installation.



# Reliable Innovate Power Static Voltage Regulation Technology for Next Gen Electronic Machinery

## TECHNICAL SPECIFICATIONS

<b>Model</b>	<b>STIG_4003VA_3670V</b>
<b>VP CODE</b>	<b>VP003549</b>
<b>DISCRIPTION</b>	<b>STATIC STABILIZER-400KVA (360-470V)</b>

### Electrical

<b>Capacity (in KVA)</b>	500
<b>Switching Technology</b>	20kHz IGBT AC chopper / inverter
<b>Voltage Compensation Time</b>	20-30 ms typical

### AC Input

<b>Nominal Input Voltage(V)</b>	Three Phase 415 V AC
<b>Designed Input Voltage Range (V) (voltage regulation accuracy of <math>\pm 1\%</math>)</b>	360-470
<b>Input Voltage Range (V) (for relaxed output regulation within functional range of 200- 260 VP-N)</b>	300-500V
<b>Nominal Operating Frequency</b>	47-63Hz
<b>AC Input Connector</b>	L1 ,L2, L3, Neutral & Ground input BUSBAR
<b>Overload &amp; Short Circuit Protection</b>	Through suitably rated input circuit breaker

### AC Output

<b>Nominal Output Voltage (V)</b>	Three Phase 415 V AC
<b>Efficiency</b>	Typical 97%(under20-100%loadcondition)
<b>Output Voltage Compensation Range</b>	+/-1%
<b>Maximum Rated Output Current(A)/Per Phase</b>	555
<b>System Status Indicator</b>	Green LED ON-Normal operation Red LED ON-Fault
<b>Output Connector</b>	L1, L2 ,L3, Neutral & Ground output BUSBAR
<b>Surge Protection</b>	Class II Surge Protection

## Physical

<b>Cabinet Construction</b>	RAL7035 light grey powder coated CRCA cabinets
<b>Automatic AC-AC Converter By pass</b>	Standard, will get activated when there is a fault condition
<b>Cabinet Weather Protection Ratings</b>	IP20(for use in protected indoor environments)
<b>Display</b>	Digital output voltage display
<b>Mounting</b>	Pad mounted
<b>Overall Dimension(approx.)</b>	As per Dimension Diagram of Panel Type 650x1220x2400
<b>Unpacked Weight (approx.)</b>	1050 kg

## Environmental

<b>Cooling Method</b>	Forced air
<b>Operating Temperature Range</b>	0 to + 45°C
<b>Operating Humidity Range</b>	10 to 90% relative humidity (non-condensing)

**Note:**

1. The voltage regulation is based on 415V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.
2. All standard models are optionally available in IP54.

