# STATIC STABILIZER - 400KVA (340-470V)

## DESCRIPTION

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

- 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

- 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 ±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

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|---|---|
| **Model** | **STIG_4003VA_3470V** |
| **VP CODE** | **VP003550** |
| **DISCRIPTION** | **STATIC STABILIZER-400KVA (340-470V)** |

## Electrical

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|---|---|
| **Capacity (in KVA)** | 400 KVA |
| **Switching Technology** | 20kHz IGBT AC chopper / inverter |
| **Voltage Compensation Time** | 20-30 ms typical |

## AC Input

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|---|---|
| **Nominal Input Voltage(V)** | Three Phase 415 V AC |
| **Designed Input Voltage Range (V) (voltage regulation accuracy of ±1%)** | 340-470 |
| **Input Voltage Range (V) (for relaxed output regulation within functional range of 200-260 VP-N)** | 300-500V |
| **Nominal Operating Frequency** | 47–63Hz |
| **AC Input Connector** | L1 ,L2, L3, Neutral & Ground input BUSBAR |
| **Overload & Short Circuit Protection** | Through suitably rated input circuit breaker |

## AC Output

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

# Physical

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

# Environmental

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|---|---|
| **Cooling Method** | Forced air |
| **Operating Temperature Range** | 0 to + 45°C |
| **Operating Humidity Range** | 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.*