



TSi-NPS VRP

NPS VRP

Three Phase 6kVA to 160kVA, $\pm 13\%$

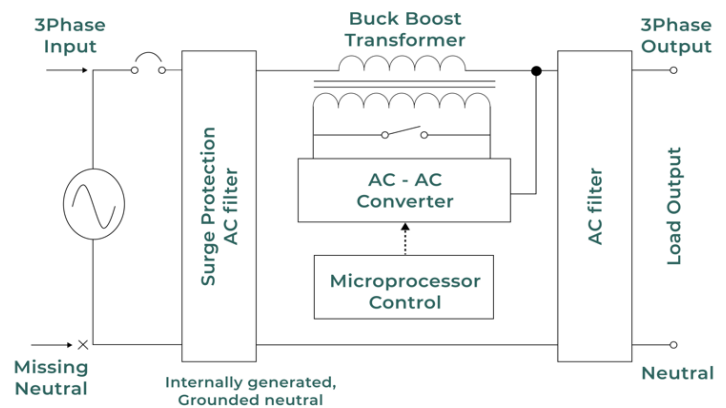


NPS VRP is a cost-effective three phase automatic precision AC voltage regulator that ensures maintenance-free operation of electronic equipment over a wide range of input voltage range without having the need of an input neutral for carrying out its operation. TSi-NPS VRP series is designed to provide high precision power with a typical compensation time of 20 milliseconds to comply with the requirements of the ITIC curve for power supply to electronics.

Three phase as well as single phase versions are available.

How the NPS 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 then adds or subtracts a compensating voltage to achieve a precisely regulated 230 V output.



Features and Benefits:

- NPS VRP doesn't need input neutral.
- Ability to provide healthy output even if there is a break/failure of incoming neutral.
- Provides the output voltage within $\pm 1\%$ of the nominal voltage with real-time optimum voltage compensation, as well as spike & noise control.
- Output load can be single phase as well as three phase.
- No change in wiring is required. Input will be three phase 4 wire and output will be three phase 5 wire.
- Static technology results in quiet operation, high product up-time & low maintenance.
- 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.

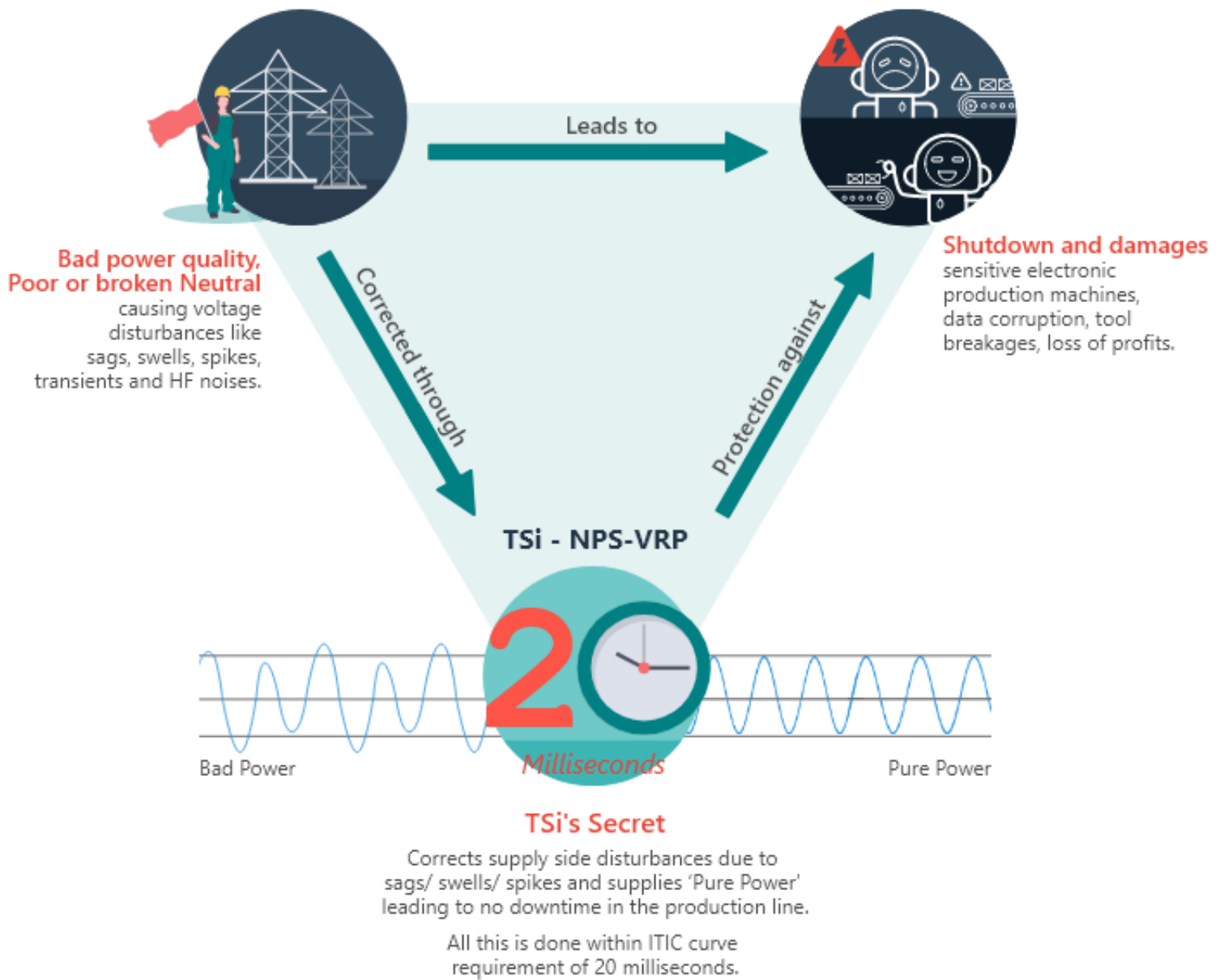
Illustration of TSi-NPS VRP Technology



Note:

- In NPS VRP, distribution of load is required.
- Maximum capacity per phase will be $1/3^{\text{rd}}$ of the equipment capacity. Example: 30KVA NPS VRP can be loaded maximum 10KVA single phase per phase.

Reliable TSi-NPS VRP Technology for Next Gen Electronic Machinery



Technical Specifications

| Model | NPS-VRP-6000-9339-130M |
|---|---|
| Electrical | |
| Capacity (in KVA) | 6 |
| Switching Technology | 20 kHz IGBT AC chopper/inverter |
| Voltage Compensation Time | 20 ms typical |
| AC Input | |
| Nominal Input Voltage (V) | Three phase 415 |
| Designed Input voltage range (V) (voltage regulation accuracy of +/-1%) | 360 - 470 |
| Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) | 300 - 490 |
| Nominal Operating Frequency | 47 – 63 Hz |
| Maximum rated input current (A) | 10 |
| AC Input Connector | L1, L2, L3 & Ground input wires. Input neutral will not be used. |
| Overload & Short Circuit Protection | Through suitably rated input circuit breaker |
| AC Output | |
| Nominal Output Voltage (V) | Three phase 415 |
| Efficiency | Typical 97% (under 20 – 100 % load condition) |
| Output Voltage Compensation Range | +/- 1 % |
| Maximum Rated Output Current (A) | 8 |
| System Status Indicator | Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault |
| Output Connector | L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided. |
| Surge Protection | Class II Surge Protection |
| Physical | |
| Cabinet Construction | RAL 7035 light grey powder coated CRCA cabinets |
| Automatic AC-AC Converter Bypass | Standard, will get activated when there is a fault condition |
| Cabinet Weather Protection Ratings | IP 20 (for use in protected indoor environments) |
| Display | Digital output voltage display thru selector switch |
| Mounting | 4 High Quality Castor wheels, 2 with brakes |
| Overall Dimension (approx.) | As per Dimension Diagram of Cubical Type 610x610x640 |
| Unpacked Weight (approx.) | 60 kg |
| Environmental | |
| Cooling Method | Forced air |
| Operating Temperature Range | 0 to + 45 °C |
| Operating Humidity Range | 10 to 90% relative humidity (non-condensing) |

**NPS VRP doesn't need input neutral.*

Technical Specifications

| Model | NPS-VRP-10000-9339-130M |
|---|---|
| Electrical | |
| Capacity (in KVA) | 10 |
| Switching Technology | 20 kHz IGBT AC chopper/inverter |
| Voltage Compensation Time | 20 ms typical |
| AC Input | |
| Nominal Input Voltage (V) | Three phase 415 |
| Designed Input voltage range (V) (voltage regulation accuracy of +/-1%) | 360 - 470 |
| Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) | 300 - 490 |
| Nominal Operating Frequency | 47 – 63 Hz |
| Maximum rated input current (A) | 16 |
| AC Input Connector | L1, L2, L3 & Ground input wires. Input neutral will not be used. |
| Overload & Short Circuit Protection | Through suitably rated input circuit breaker |
| AC Output | |
| Nominal Output Voltage (V) | Three phase 415 |
| Efficiency | Typical 97% (under 20 – 100 % load condition) |
| Output Voltage Compensation Range | +/- 1 % |
| Maximum Rated Output Current (A) | 14 |
| System Status Indicator | Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault |
| Output Connector | L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided. |
| Surge Protection | Class II Surge Protection |
| Physical | |
| Cabinet Construction | RAL 7035 light grey powder coated CRCA cabinets |
| Automatic AC-AC Converter Bypass | Standard, will get activated when there is a fault condition |
| Cabinet Weather Protection Ratings | IP 20 (for use in protected indoor environments) |
| Display | Digital output voltage display thru selector switch |
| Mounting | 4 High Quality Castor wheels, 2 with brakes |
| Overall Dimension (approx.) | As per Dimension Diagram of Cubical Type 610x610x640 |
| Unpacked Weight (approx.) | 75 kg |
| Environmental | |
| Cooling Method | Forced air |
| Operating Temperature Range | 0 to + 45 °C |
| Operating Humidity Range | 10 to 90% relative humidity (non-condensing) |

**NPS VRP doesn't need input neutral.*

Technical Specifications

| Model | NPS-VRP-15000-9339-130M |
|---|---|
| Electrical | |
| Capacity (in KVA) | 15 |
| Switching Technology | 20 kHz IGBT AC chopper/inverter |
| Voltage Compensation Time | 20 ms typical |
| AC Input | |
| Nominal Input Voltage (V) | Three phase 415 |
| Designed Input voltage range (V) (voltage regulation accuracy of +/-1%) | 360 - 470 |
| Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) | 300 - 490 |
| Nominal Operating Frequency | 47 – 63 Hz |
| Maximum rated input current (A) | 24 |
| AC Input Connector | L1, L2, L3 & Ground input wires. Input neutral will not be used. |
| Overload & Short Circuit Protection | Through suitably rated input circuit breaker |
| AC Output | |
| Nominal Output Voltage (V) | Three phase 415 |
| Efficiency | Typical 97% (under 20 – 100 % load condition) |
| Output Voltage Compensation Range | +/- 1 % |
| Maximum Rated Output Current (A) | 21 |
| System Status Indicator | Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault |
| Output Connector | L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided. |
| Surge Protection | Class II Surge Protection |
| Physical | |
| Cabinet Construction | RAL 7035 light grey powder coated CRCA cabinets |
| Automatic AC-AC Converter Bypass | Standard, will get activated when there is a fault condition |
| Cabinet Weather Protection Ratings | IP 20 (for use in protected indoor environments) |
| Display | Digital output voltage display thru selector switch |
| Mounting | 4 High Quality Castor wheels, 2 with brakes |
| Overall Dimension (approx.) | As per Dimension Diagram of Cubical Type 610x610x640 |
| Unpacked Weight (approx.) | 85 kg |
| Environmental | |
| Cooling Method | Forced air |
| Operating Temperature Range | 0 to + 45 °C |
| Operating Humidity Range | 10 to 90% relative humidity (non-condensing) |

**NPS VRP doesn't need input neutral.*

Technical Specifications

| Model | NPS-VRP-20000-9339-130M |
|---|---|
| Electrical | |
| Capacity (in KVA) | 20 |
| Switching Technology | 20 kHz IGBT AC chopper/inverter |
| Voltage Compensation Time | 20 ms typical |
| AC Input | |
| Nominal Input Voltage (V) | Three phase 415 |
| Designed Input voltage range (V) (voltage regulation accuracy of +/-1%) | 360 - 470 |
| Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) | 300 - 490 |
| Nominal Operating Frequency | 47 – 63 Hz |
| Maximum rated input current (A) | 32 |
| AC Input Connector | L1, L2, L3 & Ground input wires. Input neutral will not be used. |
| Overload & Short Circuit Protection | Through suitably rated input circuit breaker |
| AC Output | |
| Nominal Output Voltage (V) | Three phase 415 |
| Efficiency | Typical 97% (under 20 – 100 % load condition) |
| Output Voltage Compensation Range | +/- 1 % |
| Maximum Rated Output Current (A) | 28 |
| System Status Indicator | Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault |
| Output Connector | L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided. |
| Surge Protection | Class II Surge Protection |
| Physical | |
| Cabinet Construction | RAL 7035 light grey powder coated CRCA cabinets |
| Automatic AC-AC Converter Bypass | Standard, will get activated when there is a fault condition |
| Cabinet Weather Protection Ratings | IP 20 (for use in protected indoor environments) |
| Display | Digital output voltage display thru selector switch |
| Mounting | 4 High Quality Castor wheels, 2 with brakes |
| Overall Dimension (approx.) | As per Dimension Diagram of Cubical Type 610x610x640 |
| Unpacked Weight (approx.) | 115 kg |
| Environmental | |
| Cooling Method | Forced air |
| Operating Temperature Range | 0 to + 45 °C |
| Operating Humidity Range | 10 to 90% relative humidity (non-condensing) |

**NPS VRP doesn't need input neutral.*

Technical Specifications

| Model | NPS-VRP-25000-9339-130M |
|---|---|
| Electrical | |
| Capacity (in KVA) | 25 |
| Switching Technology | 20 kHz IGBT AC chopper/inverter |
| Voltage Compensation Time | 20 ms typical |
| AC Input | |
| Nominal Input Voltage (V) | Three phase 415 |
| Designed Input voltage range (V) (voltage regulation accuracy of +/-1%) | 360 - 470 |
| Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) | 300 - 490 |
| Nominal Operating Frequency | 47 – 63 Hz |
| Maximum rated input current (A) | 40 |
| AC Input Connector | L1, L2, L3 & Ground input wires. Input neutral will not be used. |
| Overload & Short Circuit Protection | Through suitably rated input circuit breaker |
| AC Output | |
| Nominal Output Voltage (V) | Three phase 415 |
| Efficiency | Typical 97% (under 20 – 100 % load condition) |
| Output Voltage Compensation Range | +/- 1 % |
| Maximum Rated Output Current (A) | 35 |
| System Status Indicator | Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault |
| Output Connector | L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided. |
| Surge Protection | Class II Surge Protection |
| Physical | |
| Cabinet Construction | RAL 7035 light grey powder coated CRCA cabinets |
| Automatic AC-AC Converter Bypass | Standard, will get activated when there is a fault condition |
| Cabinet Weather Protection Ratings | IP 20 (for use in protected indoor environments) |
| Display | Digital output voltage display thru selector switch |
| Mounting | 4 High Quality Castor wheels, 2 with brakes |
| Overall Dimension (approx.) | As per Dimension Diagram of Cubical Type 610x610x640 |
| Unpacked Weight (approx.) | 120 kg |
| Environmental | |
| Cooling Method | Forced air |
| Operating Temperature Range | 0 to + 45 °C |
| Operating Humidity Range | 10 to 90% relative humidity (non-condensing) |

**NPS VRP doesn't need input neutral.*

Technical Specifications

| Model | NPS-VRP-30000-9339-130M |
|---|---|
| Electrical | |
| Capacity (in KVA) | 30 |
| Switching Technology | 20 kHz IGBT AC chopper/inverter |
| Voltage Compensation Time | 20 ms typical |
| AC Input | |
| Nominal Input Voltage (V) | Three phase 415 |
| Designed Input voltage range (V) (voltage regulation accuracy of +/-1%) | 360 - 470 |
| Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) | 300 - 490 |
| Nominal Operating Frequency | 47 – 63 Hz |
| Maximum rated input current (A) | 48 |
| AC Input Connector | L1, L2, L3 & Ground input wires. Input neutral will not be used. |
| Overload & Short Circuit Protection | Through suitably rated input circuit breaker |
| AC Output | |
| Nominal Output Voltage (V) | Three phase 415 |
| Efficiency | Typical 97% (under 20 – 100 % load condition) |
| Output Voltage Compensation Range | +/- 1 % |
| Maximum Rated Output Current (A) | 42 |
| System Status Indicator | Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault |
| Output Connector | L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided. |
| Surge Protection | Class II Surge Protection |
| Physical | |
| Cabinet Construction | RAL 7035 light grey powder coated CRCA cabinets |
| Automatic AC-AC Converter Bypass | Standard, will get activated when there is a fault condition |
| Cabinet Weather Protection Ratings | IP 20 (for use in protected indoor environments) |
| Display | Digital output voltage display thru selector switch |
| Mounting | 4 High Quality Castor wheels, 2 with brakes |
| Overall Dimension (approx.) | As per Dimension Diagram of Cubical Type 660x660x720 |
| Unpacked Weight (approx.) | 125 kg |
| Environmental | |
| Cooling Method | Forced air |
| Operating Temperature Range | 0 to + 45 °C |
| Operating Humidity Range | 10 to 90% relative humidity (non-condensing) |

**NPS VRP doesn't need input neutral.*

Technical Specifications

| Model | NPS-VRP-40000-9339-130M |
|---|---|
| Electrical | |
| Capacity (in KVA) | 40 |
| Switching Technology | 20 kHz IGBT AC chopper/inverter |
| Voltage Compensation Time | 20 ms typical |
| AC Input | |
| Nominal Input Voltage (V) | Three phase 415 |
| Designed Input voltage range (V) (voltage regulation accuracy of +/-1%) | 360 - 470 |
| Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) | 300 - 490 |
| Nominal Operating Frequency | 47 – 63 Hz |
| Maximum rated input current (A) | 64 |
| AC Input Connector | L1, L2, L3 & Ground input wires. Input neutral will not be used. |
| Overload & Short Circuit Protection | Through suitably rated input circuit breaker |
| AC Output | |
| Nominal Output Voltage (V) | Three phase 415 |
| Efficiency | Typical 97% (under 20 – 100 % load condition) |
| Output Voltage Compensation Range | +/- 1 % |
| Maximum Rated Output Current (A) | 56 |
| System Status Indicator | Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault |
| Output Connector | L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided. |
| Surge Protection | Class II Surge Protection |
| Physical | |
| Cabinet Construction | RAL 7035 light grey powder coated CRCA cabinets |
| Automatic AC-AC Converter Bypass | Standard, will get activated when there is a fault condition |
| Cabinet Weather Protection Ratings | IP 20 (for use in protected indoor environments) |
| Display | Digital output voltage display thru selector switch |
| Mounting | 4 High Quality Castor wheels, 2 with brakes |
| Overall Dimension (approx.) | As per Dimension Diagram of Cubical Type 660x660x720 |
| Unpacked Weight (approx.) | 180 kg |
| Environmental | |
| Cooling Method | Forced air |
| Operating Temperature Range | 0 to + 45 °C |
| Operating Humidity Range | 10 to 90% relative humidity (non-condensing) |

**NPS VRP doesn't need input neutral.*

Technical Specifications

| Model | NPS-VRP-50000-9339-130M |
|---|---|
| Electrical | |
| Capacity (in KVA) | 50 |
| Switching Technology | 20 kHz IGBT AC chopper/inverter |
| Voltage Compensation Time | 20 ms typical |
| AC Input | |
| Nominal Input Voltage (V) | Three phase 415 |
| Designed Input voltage range (V) (voltage regulation accuracy of +/-1%) | 360 - 470 |
| Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) | 300 - 490 |
| Nominal Operating Frequency | 47 – 63 Hz |
| Maximum rated input current (A) | 80 |
| AC Input Connector | L1, L2, L3 & Ground input wires. Input neutral will not be used. |
| Overload & Short Circuit Protection | Through suitably rated input circuit breaker |
| AC Output | |
| Nominal Output Voltage (V) | Three phase 415 |
| Efficiency | Typical 97% (under 20 – 100 % load condition) |
| Output Voltage Compensation Range | +/- 1 % |
| Maximum Rated Output Current (A) | 70 |
| System Status Indicator | Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault |
| Output Connector | L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided. |
| Surge Protection | Class II Surge Protection |
| Physical | |
| Cabinet Construction | RAL 7035 light grey powder coated CRCA cabinets |
| Automatic AC-AC Converter Bypass | Standard, will get activated when there is a fault condition |
| Cabinet Weather Protection Ratings | IP 20 (for use in protected indoor environments) |
| Display | Digital output voltage display thru selector switch |
| Mounting | 4 High Quality Castor wheels, 2 with brakes |
| Overall Dimension (approx.) | Cabinet 1: As per Dimension Diagram of Cubical Type 660x660x720 + Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800 |
| Unpacked Weight (approx.) | 150 kg + 110 kg |
| Environmental | |
| Cooling Method | Forced air |
| Operating Temperature Range | 0 to + 45 °C |
| Operating Humidity Range | 10 to 90% relative humidity (non-condensing) |

**NPS VRP doesn't need input neutral.*

Technical Specifications

| Model | NPS-VRP-60000-9339-130M |
|---|---|
| Electrical | |
| Capacity (in KVA) | 60 |
| Switching Technology | 20 kHz IGBT AC chopper/inverter |
| Voltage Compensation Time | 20 ms typical |
| AC Input | |
| Nominal Input Voltage (V) | Three phase 415 |
| Designed Input voltage range (V) (voltage regulation accuracy of +/-1%) | 360 - 470 |
| Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) | 300 - 490 |
| Nominal Operating Frequency | 47 – 63 Hz |
| Maximum rated input current (A) | 96 |
| AC Input Connector | L1, L2, L3 & Ground input wires. Input neutral will not be used. |
| Overload & Short Circuit Protection | Through suitably rated input circuit breaker |
| AC Output | |
| Nominal Output Voltage (V) | Three phase 415 |
| Efficiency | Typical 97% (under 20 – 100 % load condition) |
| Output Voltage Compensation Range | +/- 1 % |
| Maximum Rated Output Current (A) | 83 |
| System Status Indicator | Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault |
| Output Connector | L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided. |
| Surge Protection | Class II Surge Protection |
| Physical | |
| Cabinet Construction | RAL 7035 light grey powder coated CRCA cabinets |
| Automatic AC-AC Converter Bypass | Standard, will get activated when there is a fault condition |
| Cabinet Weather Protection Ratings | IP 20 (for use in protected indoor environments) |
| Display | Digital output voltage display thru selector switch |
| Mounting | 4 High Quality Castor wheels, 2 with brakes |
| Overall Dimension (approx.) | Cabinet 1: As per Dimension Diagram of Cubical Type 660x660x720 + Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800 |
| Unpacked Weight (approx.) | 165 kg + 120 kg |
| Environmental | |
| Cooling Method | Forced air |
| Operating Temperature Range | 0 to + 45 °C |
| Operating Humidity Range | 10 to 90% relative humidity (non-condensing) |

**NPS VRP doesn't need input neutral.*

Technical Specifications

| Model | NPS-VRP-75000-9339-130M |
|---|---|
| Electrical | |
| Capacity (in KVA) | 75 |
| Switching Technology | 20 kHz IGBT AC chopper/inverter |
| Voltage Compensation Time | 20 ms typical |
| AC Input | |
| Nominal Input Voltage (V) | Three phase 415 |
| Designed Input voltage range (V) (voltage regulation accuracy of +/-1%) | 360 - 470 |
| Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) | 300 - 490 |
| Nominal Operating Frequency | 47 – 63 Hz |
| Maximum rated input current (A) | 120 |
| AC Input Connector | L1, L2, L3 & Ground input wires. Input neutral will not be used. |
| Overload & Short Circuit Protection | Through suitably rated input circuit breaker |
| AC Output | |
| Nominal Output Voltage (V) | Three phase 415 |
| Efficiency | Typical 97% (under 20 – 100 % load condition) |
| Output Voltage Compensation Range | +/- 1 % |
| Maximum Rated Output Current (A) | 104 |
| System Status Indicator | Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault |
| Output Connector | L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided. |
| Surge Protection | Class II Surge Protection |
| Physical | |
| Cabinet Construction | RAL 7035 light grey powder coated CRCA cabinets |
| Automatic AC-AC Converter Bypass | Standard, will get activated when there is a fault condition |
| Cabinet Weather Protection Ratings | IP 20 (for use in protected indoor environments) |
| Display | Digital output voltage display thru selector switch |
| Mounting | 4 High Quality Castor wheels, 2 with brakes |
| Overall Dimension (approx.) | Cabinet 1: As per Dimension Diagram of Cubical Type 660x660x720 + Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800 |
| Unpacked Weight (approx.) | 170 kg + 130 kg |
| Environmental | |
| Cooling Method | Forced air |
| Operating Temperature Range | 0 to + 45 °C |
| Operating Humidity Range | 10 to 90% relative humidity (non-condensing) |

**NPS VRP doesn't need input neutral.*

Technical Specifications

| Model | NPS-VRP-100000-9339-130M |
|---|---|
| Electrical | |
| Capacity (in KVA) | 100 |
| Switching Technology | 20 kHz IGBT AC chopper/inverter |
| Voltage Compensation Time | 20 ms typical |
| AC Input | |
| Nominal Input Voltage (V) | Three phase 415 |
| Designed Input voltage range (V) (voltage regulation accuracy of +/-1%) | 360 - 470 |
| Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) | 300 - 490 |
| Nominal Operating Frequency | 47 – 63 Hz |
| Maximum rated input current (A) | 160 |
| AC Input Connector | L1, L2, L3 & Ground input wires. Input neutral will not be used. |
| Overload & Short Circuit Protection | Through suitably rated input circuit breaker |
| AC Output | |
| Nominal Output Voltage (V) | Three phase 415 |
| Efficiency | Typical 97% (under 20 – 100 % load condition) |
| Output Voltage Compensation Range | +/- 1 % |
| Maximum Rated Output Current (A) | 139 |
| System Status Indicator | Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault |
| Output Connector | L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided. |
| Surge Protection | Class II Surge Protection |
| Physical | |
| Cabinet Construction | RAL 7035 light grey powder coated CRCA cabinets |
| Automatic AC-AC Converter Bypass | Standard, will get activated when there is a fault condition |
| Cabinet Weather Protection Ratings | IP 20 (for use in protected indoor environments) |
| Display | Digital output voltage display thru selector switch |
| Mounting | 4 High Quality Castor wheels, 2 with brakes |
| Overall Dimension (approx.) | Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x838 + Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800 |
| Unpacked Weight (approx.) | 260 kg + 160 kg |
| Environmental | |
| Cooling Method | Forced air |
| Operating Temperature Range | 0 to + 45 °C |
| Operating Humidity Range | 10 to 90% relative humidity (non-condensing) |

**NPS VRP doesn't need input neutral.*

Technical Specifications

| Model | NPS-VRP-130000-9339-130M |
|---|---|
| Electrical | |
| Capacity (in KVA) | 130 |
| Switching Technology | 20 kHz IGBT AC chopper/inverter |
| Voltage Compensation Time | 20 ms typical |
| AC Input | |
| Nominal Input Voltage (V) | Three phase 415 |
| Designed Input voltage range (V) (voltage regulation accuracy of +/-1%) | 360 - 470 |
| Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) | 300 - 490 |
| Nominal Operating Frequency | 47 – 63 Hz |
| Maximum rated input current (A) | 208 |
| AC Input Connector | L1, L2, L3 & Ground input wires. Input neutral will not be used. |
| Overload & Short Circuit Protection | Through suitably rated input circuit breaker |
| AC Output | |
| Nominal Output Voltage (V) | Three phase 415 |
| Efficiency | Typical 97% (under 20 – 100 % load condition) |
| Output Voltage Compensation Range | +/- 1 % |
| Maximum Rated Output Current (A) | 181 |
| System Status Indicator | Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault |
| Output Connector | L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided. |
| Surge Protection | Class II Surge Protection |
| Physical | |
| Cabinet Construction | RAL 7035 light grey powder coated CRCA cabinets |
| Automatic AC-AC Converter Bypass | Standard, will get activated when there is a fault condition |
| Cabinet Weather Protection Ratings | IP 20 (for use in protected indoor environments) |
| Display | Digital output voltage display thru selector switch |
| Mounting | 4 High Quality Castor wheels, 2 with brakes |
| Overall Dimension (approx.) | Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x838 + Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800 |
| Unpacked Weight (approx.) | 320 kg + 190 kg |
| Environmental | |
| Cooling Method | Forced air |
| Operating Temperature Range | 0 to + 45 °C |
| Operating Humidity Range | 10 to 90% relative humidity (non-condensing) |

**NPS VRP doesn't need input neutral.*

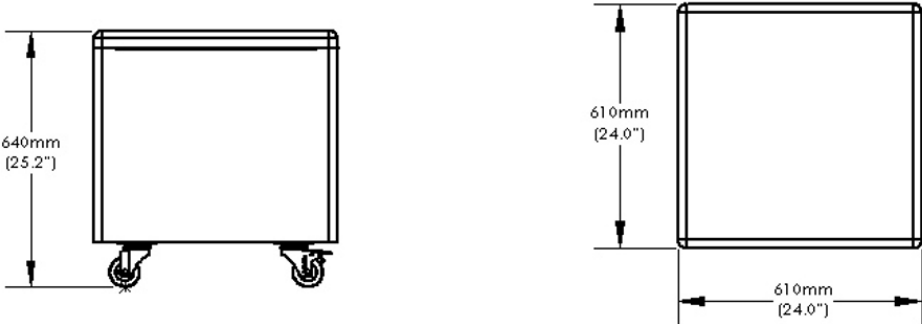
Technical Specifications

| Model | NPS-VRP-160000-9339-130M |
|---|---|
| Electrical | |
| Capacity (in KVA) | 160 |
| Switching Technology | 20 kHz IGBT AC chopper/inverter |
| Voltage Compensation Time | 20 ms typical |
| AC Input | |
| Nominal Input Voltage (V) | Three phase 415 |
| Designed Input voltage range (V) (voltage regulation accuracy of +/-1%) | 360 - 470 |
| Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) | 300 - 490 |
| Nominal Operating Frequency | 47 – 63 Hz |
| Maximum rated input current (A) | 256 |
| AC Input Connector | L1, L2, L3 & Ground input wires. Input neutral will not be used. |
| Overload & Short Circuit Protection | Through suitably rated input circuit breaker |
| AC Output | |
| Nominal Output Voltage (V) | Three phase 415 |
| Efficiency | Typical 97% (under 20 – 100 % load condition) |
| Output Voltage Compensation Range | +/- 1 % |
| Maximum Rated Output Current (A) | 223 |
| System Status Indicator | Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault |
| Output Connector | L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided. |
| Surge Protection | Class II Surge Protection |
| Physical | |
| Cabinet Construction | RAL 7035 light grey powder coated CRCA cabinets |
| Automatic AC-AC Converter Bypass | Standard, will get activated when there is a fault condition |
| Cabinet Weather Protection Ratings | IP 20 (for use in protected indoor environments) |
| Display | Digital output voltage display thru selector switch |
| Mounting | 4 High Quality Castor wheels, 2 with brakes |
| Overall Dimension (approx.) | Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x838 + Cabinet 2: As per Dimension Diagram of Cubical Type 690x650x930 |
| Unpacked Weight (approx.) | 355 kg + 220 kg |
| Environmental | |
| Cooling Method | Forced air |
| Operating Temperature Range | 0 to + 45 °C |
| Operating Humidity Range | 10 to 90% relative humidity (non-condensing) |

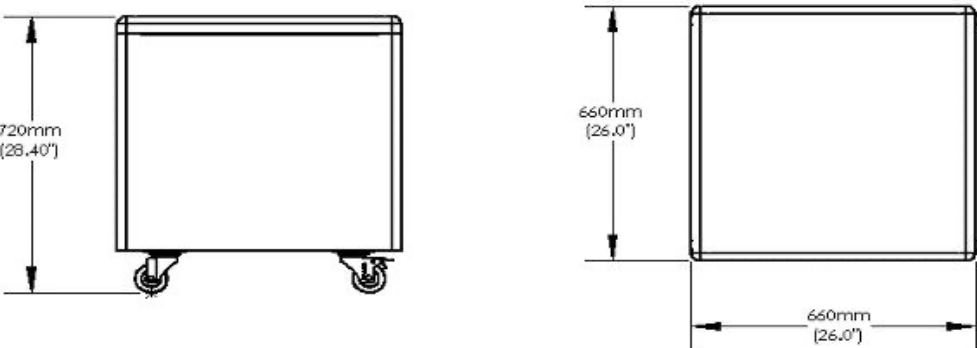
**NPS VRP doesn't need input neutral.*

Dimension Diagrams

CUBICAL TYPE 610x610x640



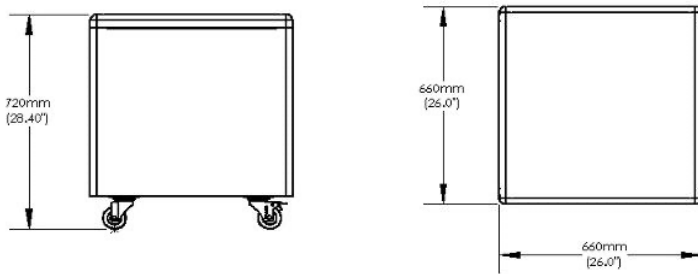
CUBICAL TYPE 660x660x720



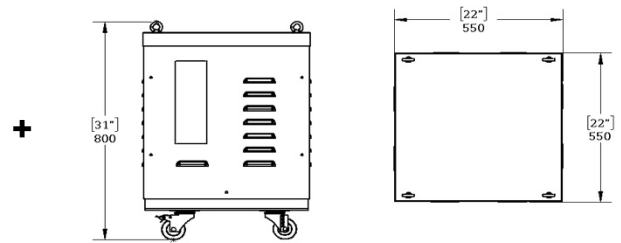
Technical Specifications

Dimension Diagrams

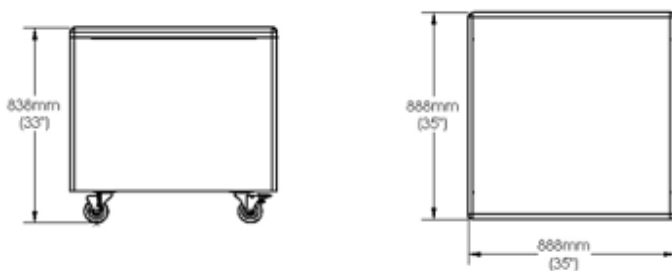
CUBICAL TYPE 660x660x720



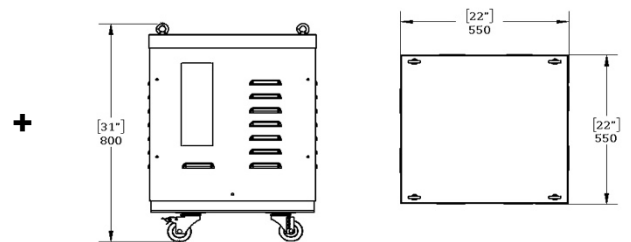
CUBICAL TYPE 550x550x800



CUBICAL TYPE 888x888x838



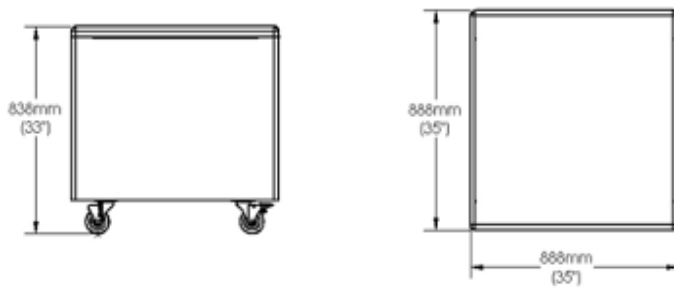
CUBICAL TYPE 550x550x800



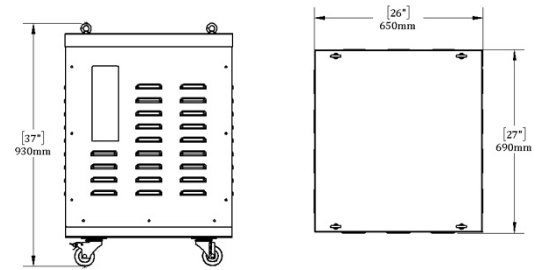
Technical Specifications

Dimension Diagrams

CUBICAL TYPE 888x888x838



CUBICAL TYPE 690x650x930



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