

# PRODUCT SPECSHEET

**PRODUCT: TSi VRP**

**CATEGORY: STATIC VOLTAGE STABILIZER**

**MODEL: THREE PHASE 3KVA TO 250KVA,  $\pm 20\%$**



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*DISCLAIMER: The information provided is for representative purposes only and does not constitute a warranty. Users are responsible for verifying the suitability of the product for their specific applications.*

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The **TSi VRP series** is designed to provide precision power with a typical response cum correction time of 20 milliseconds to comply with the requirements of the ITIC curve for power supply to electronics.

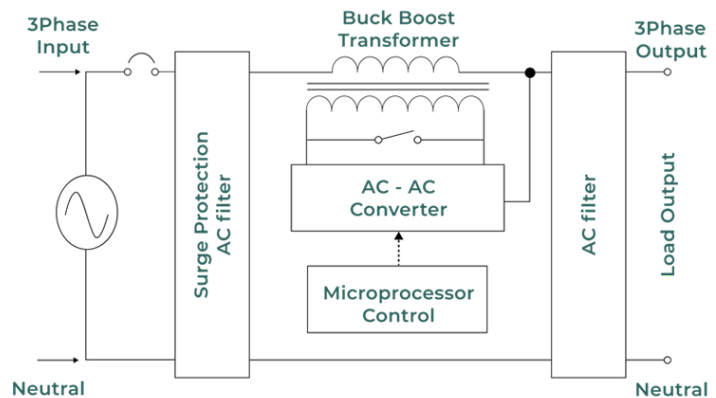


**TSi VRP** has revolutionised the industry, as the existing technologies become either obsolete or extremely expensive. Hence, we don't call them our competitors.

They are simply 'wrong solutions' for the existing power problems.

### *How does the TSi VRP work?*

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 230V output. The automatic bypass will be activated when there is a fault condition.



Green LEDs are used to indicate Normal (regulating mode) operation.

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### *Features & 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  $\pm 1\%$  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.
- Three phase as well as single phase versions are available

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## *The TSi Philosophy - Powering Happiness*

**TSi Power** is a renowned and a trusted name in the power conditioning industry. Since 2011, we have built a workplace that *nurtures* happy employees to *create* great products, in turn, making *happy customers*. Our founders strongly believe and have cultivated this within the company. There's a reason why we have become one of the world's *most trusted* power conditioners.

*Powering Happiness* is both our business goal and our work culture.

## *Our Facility in Vadodara, India*



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## TECHNICAL SPECIFICATIONS - VRP-3000-9339-200M

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| ELECTRICAL                                                                                               |                                                                                     |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Capacity (in KVA)                                                                                        | 3                                                                                   |
| Switching Technology                                                                                     | 20 kHz IGBT AC chopper/inverter                                                     |
| Voltage Compensation Time                                                                                | 20 ms typical                                                                       |
| AC INPUT                                                                                                 |                                                                                     |
| Nominal Input Voltage (V)                                                                                | Three phase 400                                                                     |
| Designed Input Voltage Range (V)<br>(voltage regulation accuracy of +/-1%)                               | 320 - 480                                                                           |
| Input Voltage Range (V)<br>(for relaxed output regulation<br>within functional range of<br>200-250V P-N) | 277 - 520                                                                           |
| Nominal Operating Frequency                                                                              | 47 - 63 Hz                                                                          |
| AC Input Connector                                                                                       | L1, L2, L3, Neutral & Ground input wires                                            |
| Overload & Short Circuit Protection                                                                      | Through suitably rated input circuit breaker                                        |
| AC OUTPUT                                                                                                |                                                                                     |
| Nominal Output Voltage (V)                                                                               | Three phase 400                                                                     |
| Efficiency                                                                                               | Typical 96% (under 20 - 100 % load condition)                                       |
| Output Voltage Compensation Range                                                                        | +/- 1 %                                                                             |
| Maximum Rated Output Current (A)                                                                         | 4                                                                                   |
| System Status Indicator                                                                                  | Green LED ON-Normal operation   Amber LED ON-Bypass<br>operation   Red LED ON-Fault |
| Output Connector                                                                                         | L1, L2, L3, Neutral & Ground output wires                                           |
| 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                               |
| Mounting                                                                                                                                                                                                                                                                               | 4 High Quality Castor wheels   2 with brakes                 |
| Overall Dimension (approx.)                                                                                                                                                                                                                                                            | As per Dimension Diagram of Cubical Type 610x610x640         |
| Unpacked Weight (approx.)                                                                                                                                                                                                                                                              | 80 kg                                                        |
| ENVIRONMENTAL                                                                                                                                                                                                                                                                          |                                                              |
| Cooling Method                                                                                                                                                                                                                                                                         | Forced air                                                   |
| Operating Temperature Range                                                                                                                                                                                                                                                            | 0 to + 45 °C                                                 |
| Operating Humidity Range                                                                                                                                                                                                                                                               | 10 to 90% relative humidity (non-condensing)                 |
| <p>Note:</p> <p>1. The voltage regulation is based on 400V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.</p> <p>2. All standard models are optionally available in IP54.</p> |                                                              |

## TECHNICAL SPECIFICATIONS - VRP-6000-9339-200M

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| 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 400                                                                     |
| Designed Input Voltage Range (V)<br>(voltage regulation accuracy of +/-1%)                               | 320 - 480                                                                           |
| Input Voltage Range (V)<br>(for relaxed output regulation<br>within functional range of<br>200-250V P-N) | 277 - 520                                                                           |
| Nominal Operating Frequency                                                                              | 47 - 63 Hz                                                                          |
| AC Input Connector                                                                                       | L1, L2, L3, Neutral & Ground input wires                                            |
| Overload & Short Circuit Protection                                                                      | Through suitably rated input circuit breaker                                        |
| AC OUTPUT                                                                                                |                                                                                     |
| Nominal Output Voltage (V)                                                                               | Three phase 400                                                                     |
| Efficiency                                                                                               | Typical 96% (under 20 - 100 % load condition)                                       |
| Output Voltage Compensation Range                                                                        | +/- 1 %                                                                             |
| Maximum Rated Output Current (A)                                                                         | 9                                                                                   |
| System Status Indicator                                                                                  | Green LED ON-Normal operation   Amber LED ON-Bypass<br>operation   Red LED ON-Fault |
| Output Connector                                                                                         | L1, L2, L3, Neutral & Ground output wires                                           |
| Surge Protection                                                                                         | Class II Surge Protection                                                           |
| PHYSICAL                                                                                                 |                                                                                     |
| Cabinet Construction                                                                                     | RAL 7035 light grey powder coated CRCA cabinets                                     |



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| 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                               |
| Mounting                                                                                                                                                                                                                                                                               | 4 High Quality Castor wheels   2 with brakes                 |
| Overall Dimension (approx.)                                                                                                                                                                                                                                                            | As per Dimension Diagram of Cubical Type 610x610x640         |
| Unpacked Weight (approx.)                                                                                                                                                                                                                                                              | 80 kg                                                        |
| ENVIRONMENTAL                                                                                                                                                                                                                                                                          |                                                              |
| Cooling Method                                                                                                                                                                                                                                                                         | Forced air                                                   |
| Operating Temperature Range                                                                                                                                                                                                                                                            | 0 to + 45 °C                                                 |
| Operating Humidity Range                                                                                                                                                                                                                                                               | 10 to 90% relative humidity (non-condensing)                 |
| <p>Note:</p> <p>1. The voltage regulation is based on 400V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.</p> <p>2. All standard models are optionally available in IP54.</p> |                                                              |

## TECHNICAL SPECIFICATIONS - VRP-10000-9339-200M

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| 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 400                                                                     |
| Designed Input Voltage Range (V)<br>(voltage regulation accuracy of +/-1%)                               | 320 - 480                                                                           |
| Input Voltage Range (V)<br>(for relaxed output regulation<br>within functional range of<br>200-250V P-N) | 277 - 520                                                                           |
| Nominal Operating Frequency                                                                              | 47 - 63 Hz                                                                          |
| AC Input Connector                                                                                       | L1, L2, L3, Neutral & Ground input wires                                            |
| Overload & Short Circuit Protection                                                                      | Through suitably rated input circuit breaker                                        |
| AC OUTPUT                                                                                                |                                                                                     |
| Nominal Output Voltage (V)                                                                               | Three phase 400                                                                     |
| Efficiency                                                                                               | Typical 96% (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<br>operation   Red LED ON-Fault |
| Output Connector                                                                                         | L1, L2, L3, Neutral & Ground output wires                                           |
| Surge Protection                                                                                         | Class II Surge Protection                                                           |
| PHYSICAL                                                                                                 |                                                                                     |
| Cabinet Construction                                                                                     | RAL 7035 light grey powder coated CRCA cabinets                                     |

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| 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                               |
| Mounting                                                                                                                                                                                                                                                                               | 4 High Quality Castor wheels   2 with brakes                 |
| Overall Dimension (approx.)                                                                                                                                                                                                                                                            | As per Dimension Diagram of Cubical Type 610x610x640         |
| Unpacked Weight (approx.)                                                                                                                                                                                                                                                              | 95 kg                                                        |
| ENVIRONMENTAL                                                                                                                                                                                                                                                                          |                                                              |
| Cooling Method                                                                                                                                                                                                                                                                         | Forced air                                                   |
| Operating Temperature Range                                                                                                                                                                                                                                                            | 0 to + 45 °C                                                 |
| Operating Humidity Range                                                                                                                                                                                                                                                               | 10 to 90% relative humidity (non-condensing)                 |
| <p>Note:</p> <p>1. The voltage regulation is based on 400V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.</p> <p>2. All standard models are optionally available in IP54.</p> |                                                              |

## TECHNICAL SPECIFICATIONS - VRP-15000-9339-200M

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| 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 400                                                                     |
| Designed Input Voltage Range (V)<br>(voltage regulation accuracy of +/-1%)                               | 320 - 480                                                                           |
| Input Voltage Range (V)<br>(for relaxed output regulation<br>within functional range of<br>200-250V P-N) | 277 - 520                                                                           |
| Nominal Operating Frequency                                                                              | 47 - 63 Hz                                                                          |
| AC Input Connector                                                                                       | L1, L2, L3, Neutral & Ground input wires                                            |
| Overload & Short Circuit Protection                                                                      | Through suitably rated input circuit breaker                                        |
| AC OUTPUT                                                                                                |                                                                                     |
| Nominal Output Voltage (V)                                                                               | Three phase 400                                                                     |
| Efficiency                                                                                               | Typical 96% (under 20 - 100 % load condition)                                       |
| Output Voltage Compensation Range                                                                        | +/- 1 %                                                                             |
| Maximum Rated Output Current (A)                                                                         | 22                                                                                  |
| System Status Indicator                                                                                  | Green LED ON-Normal operation   Amber LED ON-Bypass<br>operation   Red LED ON-Fault |
| Output Connector                                                                                         | L1, L2, L3, Neutral & Ground output wires                                           |
| 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                               |
| 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)                 |
| <p>Note:</p> <p>1. The voltage regulation is based on 400V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.</p> <p>2. All standard models are optionally available in IP54.</p> |                                                              |

## TECHNICAL SPECIFICATIONS - VRP-20000-9339-200M

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| 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 400                                                                     |
| Designed Input Voltage Range (V)<br>(voltage regulation accuracy of +/-1%)                               | 320 - 480                                                                           |
| Input Voltage Range (V)<br>(for relaxed output regulation<br>within functional range of<br>200-250V P-N) | 277 - 520                                                                           |
| Nominal Operating Frequency                                                                              | 47 - 63 Hz                                                                          |
| AC Input Connector                                                                                       | L1, L2, L3, Neutral & Ground input wires                                            |
| Overload & Short Circuit Protection                                                                      | Through suitably rated input circuit breaker                                        |
| AC OUTPUT                                                                                                |                                                                                     |
| Nominal Output Voltage (V)                                                                               | Three phase 400                                                                     |
| Efficiency                                                                                               | Typical 96% (under 20 - 100 % load condition)                                       |
| Output Voltage Compensation Range                                                                        | +/- 1 %                                                                             |
| Maximum Rated Output Current (A)                                                                         | 29                                                                                  |
| System Status Indicator                                                                                  | Green LED ON-Normal operation   Amber LED ON-Bypass<br>operation   Red LED ON-Fault |
| Output Connector                                                                                         | L1, L2, L3, Neutral & Ground output wires                                           |
| Surge Protection                                                                                         | Class II Surge Protection                                                           |
| PHYSICAL                                                                                                 |                                                                                     |
| Cabinet Construction                                                                                     | RAL 7035 light grey powder coated CRCA cabinets                                     |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 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                               |
| 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)                 |
| <p>Note:</p> <p>1. The voltage regulation is based on 400V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.</p> <p>2. All standard models are optionally available in IP54.</p> |                                                              |

## TECHNICAL SPECIFICATIONS - VRP-25000-9339-200M

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| 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 400                                                                     |
| Designed Input Voltage Range (V)<br>(voltage regulation accuracy of +/-1%)                               | 320 - 480                                                                           |
| Input Voltage Range (V)<br>(for relaxed output regulation<br>within functional range of<br>200-250V P-N) | 277 - 520                                                                           |
| Nominal Operating Frequency                                                                              | 47 - 63 Hz                                                                          |
| AC Input Connector                                                                                       | L1, L2, L3, Neutral & Ground input wires                                            |
| Overload & Short Circuit Protection                                                                      | Through suitably rated input circuit breaker                                        |
| AC OUTPUT                                                                                                |                                                                                     |
| Nominal Output Voltage (V)                                                                               | Three phase 400                                                                     |
| Efficiency                                                                                               | Typical 96% (under 20 - 100 % load condition)                                       |
| Output Voltage Compensation Range                                                                        | +/- 1 %                                                                             |
| Maximum Rated Output Current (A)                                                                         | 36                                                                                  |
| System Status Indicator                                                                                  | Green LED ON-Normal operation   Amber LED ON-Bypass<br>operation   Red LED ON-Fault |
| Output Connector                                                                                         | L1, L2, L3, Neutral & Ground output wires                                           |
| Surge Protection                                                                                         | Class II Surge Protection                                                           |
| PHYSICAL                                                                                                 |                                                                                     |
| Cabinet Construction                                                                                     | RAL 7035 light grey powder coated CRCA cabinets                                     |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 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                               |
| 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)                 |
| <p>Note:</p> <p>1. The voltage regulation is based on 400V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.</p> <p>2. All standard models are optionally available in IP54.</p> |                                                              |

## TECHNICAL SPECIFICATIONS - VRP-30000-9339-200M

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| 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 400                                                                     |
| Designed Input Voltage Range (V)<br>(voltage regulation accuracy of +/-1%)                               | 320 - 480                                                                           |
| Input Voltage Range (V)<br>(for relaxed output regulation<br>within functional range of<br>200-250V P-N) | 277 - 520                                                                           |
| Nominal Operating Frequency                                                                              | 47 - 63 Hz                                                                          |
| AC Input Connector                                                                                       | L1, L2, L3, Neutral & Ground input wires                                            |
| Overload & Short Circuit Protection                                                                      | Through suitably rated input circuit breaker                                        |
| AC OUTPUT                                                                                                |                                                                                     |
| Nominal Output Voltage (V)                                                                               | Three phase 400                                                                     |
| Efficiency                                                                                               | Typical 96% (under 20 - 100 % load condition)                                       |
| Output Voltage Compensation Range                                                                        | +/- 1 %                                                                             |
| Maximum Rated Output Current (A)                                                                         | 43                                                                                  |
| System Status Indicator                                                                                  | Green LED ON-Normal operation   Amber LED ON-Bypass<br>operation   Red LED ON-Fault |
| Output Connector                                                                                         | L1, L2, L3, Neutral & Ground output wires                                           |
| 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                               |
| Mounting                                                                                                                                                                                                                                                                               | 4 High Quality Castor wheels   2 with brakes                 |
| Overall Dimension (approx.)                                                                                                                                                                                                                                                            | As per Dimension Diagram of Cubical Type 610x610x640         |
| Unpacked Weight (approx.)                                                                                                                                                                                                                                                              | 145 kg                                                       |
| ENVIRONMENTAL                                                                                                                                                                                                                                                                          |                                                              |
| Cooling Method                                                                                                                                                                                                                                                                         | Forced air                                                   |
| Operating Temperature Range                                                                                                                                                                                                                                                            | 0 to + 45 °C                                                 |
| Operating Humidity Range                                                                                                                                                                                                                                                               | 10 to 90% relative humidity (non-condensing)                 |
| <p>Note:</p> <p>1. The voltage regulation is based on 400V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.</p> <p>2. All standard models are optionally available in IP54.</p> |                                                              |

## TECHNICAL SPECIFICATIONS - VRP-40000-9339-200M

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| 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 400                                                                     |
| Designed Input Voltage Range (V)<br>(voltage regulation accuracy of +/-1%)                               | 320 - 480                                                                           |
| Input Voltage Range (V)<br>(for relaxed output regulation<br>within functional range of<br>200-250V P-N) | 277 - 520                                                                           |
| Nominal Operating Frequency                                                                              | 47 - 63 Hz                                                                          |
| AC Input Connector                                                                                       | L1, L2, L3, Neutral & Ground input wires                                            |
| Overload & Short Circuit Protection                                                                      | Through suitably rated input circuit breaker                                        |
| AC OUTPUT                                                                                                |                                                                                     |
| Nominal Output Voltage (V)                                                                               | Three phase 400                                                                     |
| Efficiency                                                                                               | Typical 96% (under 20 - 100 % load condition)                                       |
| Output Voltage Compensation Range                                                                        | +/- 1 %                                                                             |
| Maximum Rated Output Current (A)                                                                         | 58                                                                                  |
| System Status Indicator                                                                                  | Green LED ON-Normal operation   Amber LED ON-Bypass<br>operation   Red LED ON-Fault |
| Output Connector                                                                                         | L1, L2, L3, Neutral & Ground output wires                                           |
| 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                               |
| Mounting                                                                                                                                                                                                                                                                               | 4 High Quality Castor wheels   2 with brakes                 |
| Overall Dimension (approx.)                                                                                                                                                                                                                                                            | As per Dimension Diagram of Cubical Type 660x660x720         |
| Unpacked Weight (approx.)                                                                                                                                                                                                                                                              | 165 kg                                                       |
| ENVIRONMENTAL                                                                                                                                                                                                                                                                          |                                                              |
| Cooling Method                                                                                                                                                                                                                                                                         | Forced air                                                   |
| Operating Temperature Range                                                                                                                                                                                                                                                            | 0 to + 45 °C                                                 |
| Operating Humidity Range                                                                                                                                                                                                                                                               | 10 to 90% relative humidity (non-condensing)                 |
| <p>Note:</p> <p>1. The voltage regulation is based on 400V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.</p> <p>2. All standard models are optionally available in IP54.</p> |                                                              |

## TECHNICAL SPECIFICATIONS - VRP-50000-9339-200M

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| 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 400                                                                     |
| Designed Input Voltage Range (V)<br>(voltage regulation accuracy of +/-1%)                               | 320 - 480                                                                           |
| Input Voltage Range (V)<br>(for relaxed output regulation<br>within functional range of<br>200-250V P-N) | 277 - 520                                                                           |
| Nominal Operating Frequency                                                                              | 47 - 63 Hz                                                                          |
| AC Input Connector                                                                                       | L1, L2, L3, Neutral & Ground input wires                                            |
| Overload & Short Circuit Protection                                                                      | Through suitably rated input circuit breaker                                        |
| AC OUTPUT                                                                                                |                                                                                     |
| Nominal Output Voltage (V)                                                                               | Three phase 400                                                                     |
| Efficiency                                                                                               | Typical 96% (under 20 - 100 % load condition)                                       |
| Output Voltage Compensation Range                                                                        | +/- 1 %                                                                             |
| Maximum Rated Output Current (A)                                                                         | 72                                                                                  |
| System Status Indicator                                                                                  | Green LED ON-Normal operation   Amber LED ON-Bypass<br>operation   Red LED ON-Fault |
| Output Connector                                                                                         | L1, L2, L3, Neutral & Ground output wires                                           |
| 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                               |
| Mounting                                                                                                                                                                                                                                                                               | 4 High Quality Castor wheels   2 with brakes                 |
| Overall Dimension (approx.)                                                                                                                                                                                                                                                            | As per Dimension Diagram of Cubical Type 660x660x720         |
| Unpacked Weight (approx.)                                                                                                                                                                                                                                                              | 170 kg                                                       |
| ENVIRONMENTAL                                                                                                                                                                                                                                                                          |                                                              |
| Cooling Method                                                                                                                                                                                                                                                                         | Forced air                                                   |
| Operating Temperature Range                                                                                                                                                                                                                                                            | 0 to + 45 °C                                                 |
| Operating Humidity Range                                                                                                                                                                                                                                                               | 10 to 90% relative humidity (non-condensing)                 |
| <p>Note:</p> <p>1. The voltage regulation is based on 400V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.</p> <p>2. All standard models are optionally available in IP54.</p> |                                                              |

## TECHNICAL SPECIFICATIONS - VRP-75000-9339-200M

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| 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 400                                                                     |
| Designed Input Voltage Range (V)<br>(voltage regulation accuracy of +/-1%)                               | 320 - 480                                                                           |
| Input Voltage Range (V)<br>(for relaxed output regulation<br>within functional range of<br>200-250V P-N) | 277 - 520                                                                           |
| Nominal Operating Frequency                                                                              | 47 - 63 Hz                                                                          |
| AC Input Connector                                                                                       | L1, L2, L3, Neutral & Ground input wires                                            |
| Overload & Short Circuit Protection                                                                      | Through suitably rated input circuit breaker                                        |
| AC OUTPUT                                                                                                |                                                                                     |
| Nominal Output Voltage (V)                                                                               | Three phase 400                                                                     |
| Efficiency                                                                                               | Typical 96% (under 20 - 100 % load condition)                                       |
| Output Voltage Compensation Range                                                                        | +/- 1 %                                                                             |
| Maximum Rated Output Current (A)                                                                         | 108                                                                                 |
| System Status Indicator                                                                                  | Green LED ON-Normal operation   Amber LED ON-Bypass<br>operation   Red LED ON-Fault |
| Output Connector                                                                                         | L1, L2, L3, Neutral & Ground output wires                                           |
| 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                               |
| Mounting                                                                                                                                                                                                                                                                               | 4 High Quality Castor wheels   2 with brakes                 |
| Overall Dimension (approx.)                                                                                                                                                                                                                                                            | As per Dimension Diagram of Cubical Type 888x888x838         |
| Unpacked Weight (approx.)                                                                                                                                                                                                                                                              | 280 kg                                                       |
| ENVIRONMENTAL                                                                                                                                                                                                                                                                          |                                                              |
| Cooling Method                                                                                                                                                                                                                                                                         | Forced air                                                   |
| Operating Temperature Range                                                                                                                                                                                                                                                            | 0 to + 45 °C                                                 |
| Operating Humidity Range                                                                                                                                                                                                                                                               | 10 to 90% relative humidity (non-condensing)                 |
| <p>Note:</p> <p>1. The voltage regulation is based on 400V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.</p> <p>2. All standard models are optionally available in IP54.</p> |                                                              |



## TECHNICAL SPECIFICATIONS - VRP-75000-9339-200MP

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| 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 400                                                                     |
| Designed Input Voltage Range (V)<br>(voltage regulation accuracy of +/-1%)                               | 320 - 480                                                                           |
| Input Voltage Range (V)<br>(for relaxed output regulation<br>within functional range of<br>200-250V P-N) | 277 - 520                                                                           |
| Nominal Operating Frequency                                                                              | 47 - 63 Hz                                                                          |
| AC Input Connector                                                                                       | L1, L2, L3, Neutral & Ground input BUSBAR                                           |
| Overload & Short Circuit Protection                                                                      | Through suitably rated input circuit breaker                                        |
| AC OUTPUT                                                                                                |                                                                                     |
| Nominal Output Voltage (V)                                                                               | Three phase 400                                                                     |
| Efficiency                                                                                               | Typical 96% (under 20 - 100 % load condition)                                       |
| Output Voltage Compensation Range                                                                        | +/- 1 %                                                                             |
| Maximum Rated Output Current (A)                                                                         | 108                                                                                 |
| System Status Indicator                                                                                  | Green LED ON-Normal operation   Amber LED ON-Bypass<br>operation   Red LED ON-Fault |
| Output Connector                                                                                         | L1, L2, L3, Neutral & Ground output BUSBAR                                          |
| 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                               |
| Mounting                                                                                                                                                                                                                                                                               | Pad mounted                                                  |
| Overall Dimension (approx.)                                                                                                                                                                                                                                                            | As per Dimension Diagram of Panel Type 650x1220x2400         |
| Unpacked Weight (approx.)                                                                                                                                                                                                                                                              | 450 kg                                                       |
| ENVIRONMENTAL                                                                                                                                                                                                                                                                          |                                                              |
| Cooling Method                                                                                                                                                                                                                                                                         | Forced air                                                   |
| Operating Temperature Range                                                                                                                                                                                                                                                            | 0 to + 45 °C                                                 |
| Operating Humidity Range                                                                                                                                                                                                                                                               | 10 to 90% relative humidity (non-condensing)                 |
| <p>Note:</p> <p>1. The voltage regulation is based on 400V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.</p> <p>2. All standard models are optionally available in IP54.</p> |                                                              |

## TECHNICAL SPECIFICATIONS - VRP-100000-9339-200M

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| 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 400                                                                     |
| Designed Input Voltage Range (V)<br>(voltage regulation accuracy of +/-1%)                               | 320 - 480                                                                           |
| Input Voltage Range (V)<br>(for relaxed output regulation<br>within functional range of<br>200-250V P-N) | 277 - 520                                                                           |
| Nominal Operating Frequency                                                                              | 47 - 63 Hz                                                                          |
| AC Input Connector                                                                                       | L1, L2, L3, Neutral & Ground input wires                                            |
| Overload & Short Circuit Protection                                                                      | Through suitably rated input circuit breaker                                        |
| AC OUTPUT                                                                                                |                                                                                     |
| Nominal Output Voltage (V)                                                                               | Three phase 400                                                                     |
| Efficiency                                                                                               | Typical 96% (under 20 - 100 % load condition)                                       |
| Output Voltage Compensation Range                                                                        | +/- 1 %                                                                             |
| Maximum Rated Output Current (A)                                                                         | 144                                                                                 |
| System Status Indicator                                                                                  | Green LED ON-Normal operation   Amber LED ON-Bypass<br>operation   Red LED ON-Fault |
| Output Connector                                                                                         | L1, L2, L3, Neutral & Ground output wires                                           |
| 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                               |
| Mounting                                                                                                                                                                                                                                                                               | 4 High Quality Castor wheels   2 with brakes                 |
| Overall Dimension (approx.)                                                                                                                                                                                                                                                            | As per Dimension Diagram of Cubical Type 888x888x838         |
| Unpacked Weight (approx.)                                                                                                                                                                                                                                                              | 310 kg                                                       |
| ENVIRONMENTAL                                                                                                                                                                                                                                                                          |                                                              |
| Cooling Method                                                                                                                                                                                                                                                                         | Forced air                                                   |
| Operating Temperature Range                                                                                                                                                                                                                                                            | 0 to + 45 °C                                                 |
| Operating Humidity Range                                                                                                                                                                                                                                                               | 10 to 90% relative humidity (non-condensing)                 |
| <p>Note:</p> <p>1. The voltage regulation is based on 400V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.</p> <p>2. All standard models are optionally available in IP54.</p> |                                                              |

## TECHNICAL SPECIFICATIONS - VRP-100000-9339-200MP

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| 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 400                                                                     |
| Designed Input Voltage Range (V)<br>(voltage regulation accuracy of +/-1%)                               | 320 - 480                                                                           |
| Input Voltage Range (V)<br>(for relaxed output regulation<br>within functional range of<br>200-250V P-N) | 277 - 520                                                                           |
| Nominal Operating Frequency                                                                              | 47 - 63 Hz                                                                          |
| AC Input Connector                                                                                       | L1, L2, L3, Neutral & Ground input BUSBAR                                           |
| Overload & Short Circuit Protection                                                                      | Through suitably rated input circuit breaker                                        |
| AC OUTPUT                                                                                                |                                                                                     |
| Nominal Output Voltage (V)                                                                               | Three phase 400                                                                     |
| Efficiency                                                                                               | Typical 96% (under 20 - 100 % load condition)                                       |
| Output Voltage Compensation Range                                                                        | +/- 1 %                                                                             |
| Maximum Rated Output Current (A)                                                                         | 144                                                                                 |
| System Status Indicator                                                                                  | Green LED ON-Normal operation   Amber LED ON-Bypass<br>operation   Red LED ON-Fault |
| Output Connector                                                                                         | L1, L2, L3, Neutral & Ground output BUSBAR                                          |
| 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                               |
| Mounting                                                                                                                                                                                                                                                                               | Pad mounted                                                  |
| Overall Dimension (approx.)                                                                                                                                                                                                                                                            | As per Dimension Diagram of Panel Type 650x1220x2400         |
| Unpacked Weight (approx.)                                                                                                                                                                                                                                                              | 550 kg                                                       |
| ENVIRONMENTAL                                                                                                                                                                                                                                                                          |                                                              |
| Cooling Method                                                                                                                                                                                                                                                                         | Forced air                                                   |
| Operating Temperature Range                                                                                                                                                                                                                                                            | 0 to + 45 °C                                                 |
| Operating Humidity Range                                                                                                                                                                                                                                                               | 10 to 90% relative humidity (non-condensing)                 |
| <p>Note:</p> <p>1. The voltage regulation is based on 400V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.</p> <p>2. All standard models are optionally available in IP54.</p> |                                                              |

## TECHNICAL SPECIFICATIONS - VRP-130000-9339-200MP

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| 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 400                                                                     |
| Designed Input Voltage Range (V)<br>(voltage regulation accuracy of +/-1%)                               | 320 - 480                                                                           |
| Input Voltage Range (V)<br>(for relaxed output regulation<br>within functional range of<br>200-250V P-N) | 277 - 520                                                                           |
| Nominal Operating Frequency                                                                              | 47 - 63 Hz                                                                          |
| AC Input Connector                                                                                       | L1, L2, L3, Neutral & Ground input BUSBAR                                           |
| Overload & Short Circuit Protection                                                                      | Through suitably rated input circuit breaker                                        |
| AC OUTPUT                                                                                                |                                                                                     |
| Nominal Output Voltage (V)                                                                               | Three phase 400                                                                     |
| Efficiency                                                                                               | Typical 96% (under 20 - 100 % load condition)                                       |
| Output Voltage Compensation Range                                                                        | +/- 1 %                                                                             |
| Maximum Rated Output Current (A)                                                                         | 188                                                                                 |
| System Status Indicator                                                                                  | Green LED ON-Normal operation   Amber LED ON-Bypass<br>operation   Red LED ON-Fault |
| Output Connector                                                                                         | L1, L2, L3, Neutral & Ground output BUSBAR                                          |
| 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                               |
| Mounting                                                                                                                                                                                                                                                                               | Pad mounted                                                  |
| Overall Dimension (approx.)                                                                                                                                                                                                                                                            | As per Dimension Diagram of Panel Type 650x1220x2400         |
| Unpacked Weight (approx.)                                                                                                                                                                                                                                                              | 645 kg                                                       |
| ENVIRONMENTAL                                                                                                                                                                                                                                                                          |                                                              |
| Cooling Method                                                                                                                                                                                                                                                                         | Forced air                                                   |
| Operating Temperature Range                                                                                                                                                                                                                                                            | 0 to + 45 °C                                                 |
| Operating Humidity Range                                                                                                                                                                                                                                                               | 10 to 90% relative humidity (non-condensing)                 |
| <p>Note:</p> <p>1. The voltage regulation is based on 400V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.</p> <p>2. All standard models are optionally available in IP54.</p> |                                                              |



## TECHNICAL SPECIFICATIONS - VRP-160000-9339-200MP

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| 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 400                                                                     |
| Designed Input Voltage Range (V)<br>(voltage regulation accuracy of +/-1%)                               | 320 - 480                                                                           |
| Input Voltage Range (V)<br>(for relaxed output regulation<br>within functional range of<br>200-250V P-N) | 277 - 520                                                                           |
| Nominal Operating Frequency                                                                              | 47 - 63 Hz                                                                          |
| AC Input Connector                                                                                       | L1, L2, L3, Neutral & Ground input BUSBAR                                           |
| Overload & Short Circuit Protection                                                                      | Through suitably rated input circuit breaker                                        |
| AC OUTPUT                                                                                                |                                                                                     |
| Nominal Output Voltage (V)                                                                               | Three phase 400                                                                     |
| Efficiency                                                                                               | Typical 96% (under 20 - 100 % load condition)                                       |
| Output Voltage Compensation Range                                                                        | +/- 1 %                                                                             |
| Maximum Rated Output Current (A)                                                                         | 231                                                                                 |
| System Status Indicator                                                                                  | Green LED ON-Normal operation   Amber LED ON-Bypass<br>operation   Red LED ON-Fault |
| Output Connector                                                                                         | L1, L2, L3, Neutral & Ground output BUSBAR                                          |
| 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                               |
| Mounting                                                                                                                                                                                                                                                                                                                            | Pad mounted                                                  |
| Overall Dimension (approx.)                                                                                                                                                                                                                                                                                                         | As per Dimension Diagram of Panel Type 650x1220x2400         |
| Unpacked Weight (approx.)                                                                                                                                                                                                                                                                                                           | 700 kg                                                       |
| ENVIRONMENTAL                                                                                                                                                                                                                                                                                                                       |                                                              |
| Cooling Method                                                                                                                                                                                                                                                                                                                      | Forced air                                                   |
| Operating Temperature Range                                                                                                                                                                                                                                                                                                         | 0 to + 45 °C                                                 |
| Operating Humidity Range                                                                                                                                                                                                                                                                                                            | 10 to 90% relative humidity (non-condensing)                 |
| <p>Note:</p> <ol style="list-style-type: none"> <li>1. The voltage regulation is based on 400V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.</li> <li>2. All standard models are optionally available in IP54.</li> </ol> |                                                              |

## TECHNICAL SPECIFICATIONS - VRP-200000-9339-200MP

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| ELECTRICAL                                                                                               |                                                                                     |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Capacity (in KVA)                                                                                        | 200                                                                                 |
| Switching Technology                                                                                     | 20 kHz IGBT AC chopper/inverter                                                     |
| Voltage Compensation Time                                                                                | 20 ms typical                                                                       |
| AC INPUT                                                                                                 |                                                                                     |
| Nominal Input Voltage (V)                                                                                | Three phase 400                                                                     |
| Designed Input Voltage Range (V)<br>(voltage regulation accuracy of +/-1%)                               | 320 - 480                                                                           |
| Input Voltage Range (V)<br>(for relaxed output regulation<br>within functional range of<br>200-250V P-N) | 277 - 520                                                                           |
| Nominal Operating Frequency                                                                              | 47 - 63 Hz                                                                          |
| AC Input Connector                                                                                       | L1, L2, L3, Neutral & Ground input BUSBAR                                           |
| Overload & Short Circuit Protection                                                                      | Through suitably rated input circuit breaker                                        |
| AC OUTPUT                                                                                                |                                                                                     |
| Nominal Output Voltage (V)                                                                               | Three phase 400                                                                     |
| Efficiency                                                                                               | Typical 96% (under 20 - 100 % load condition)                                       |
| Output Voltage Compensation Range                                                                        | +/- 1 %                                                                             |
| Maximum Rated Output Current (A)                                                                         | 289                                                                                 |
| System Status Indicator                                                                                  | Green LED ON-Normal operation   Amber LED ON-Bypass<br>operation   Red LED ON-Fault |
| Output Connector                                                                                         | L1, L2, L3, Neutral & Ground output BUSBAR                                          |
| 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                               |
| Mounting                                                                                                                                                                                                                                                                               | Pad mounted                                                  |
| Overall Dimension (approx.)                                                                                                                                                                                                                                                            | As per Dimension Diagram of Panel Type 650x1220x2400         |
| Unpacked Weight (approx.)                                                                                                                                                                                                                                                              | 750 kg                                                       |
| ENVIRONMENTAL                                                                                                                                                                                                                                                                          |                                                              |
| Cooling Method                                                                                                                                                                                                                                                                         | Forced air                                                   |
| Operating Temperature Range                                                                                                                                                                                                                                                            | 0 to + 45 °C                                                 |
| Operating Humidity Range                                                                                                                                                                                                                                                               | 10 to 90% relative humidity (non-condensing)                 |
| <p>Note:</p> <p>1. The voltage regulation is based on 400V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.</p> <p>2. All standard models are optionally available in IP54.</p> |                                                              |

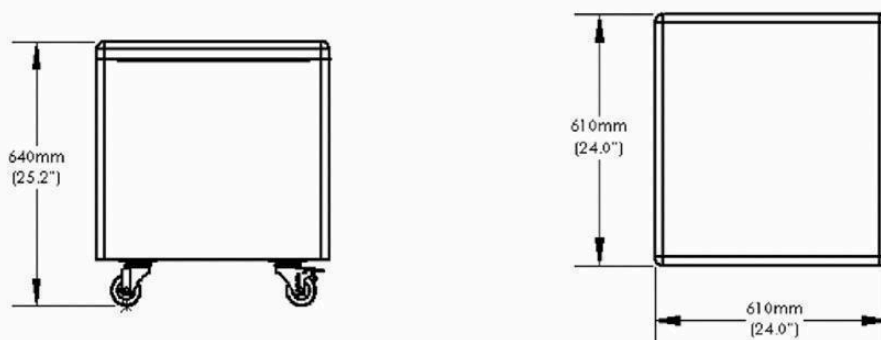
## TECHNICAL SPECIFICATIONS - VRP-250000-9339-200MP

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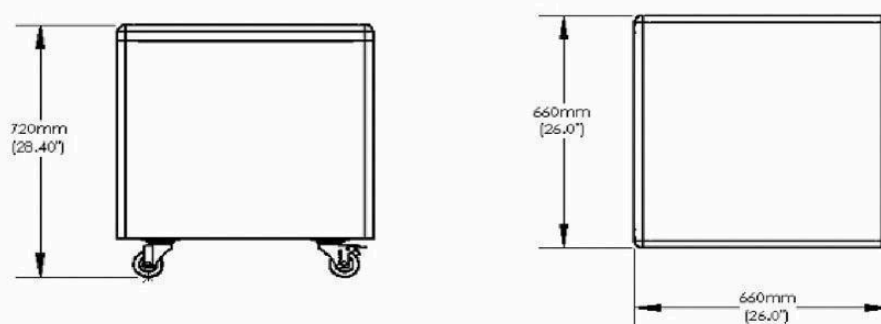
| ELECTRICAL                                                                                               |                                                                                     |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Capacity (in KVA)                                                                                        | 250                                                                                 |
| Switching Technology                                                                                     | 20 kHz IGBT AC chopper/inverter                                                     |
| Voltage Compensation Time                                                                                | 20 ms typical                                                                       |
| AC INPUT                                                                                                 |                                                                                     |
| Nominal Input Voltage (V)                                                                                | Three phase 400                                                                     |
| Designed Input Voltage Range (V)<br>(voltage regulation accuracy of +/-1%)                               | 320 - 480                                                                           |
| Input Voltage Range (V)<br>(for relaxed output regulation<br>within functional range of<br>200-250V P-N) | 277 - 520                                                                           |
| Nominal Operating Frequency                                                                              | 47 - 63 Hz                                                                          |
| AC Input Connector                                                                                       | L1, L2, L3, Neutral & Ground input BUSBAR                                           |
| Overload & Short Circuit Protection                                                                      | Through suitably rated input circuit breaker                                        |
| AC OUTPUT                                                                                                |                                                                                     |
| Nominal Output Voltage (V)                                                                               | Three phase 400                                                                     |
| Efficiency                                                                                               | Typical 96% (under 20 - 100 % load condition)                                       |
| Output Voltage Compensation Range                                                                        | +/- 1 %                                                                             |
| Maximum Rated Output Current (A)                                                                         | 361                                                                                 |
| System Status Indicator                                                                                  | Green LED ON-Normal operation   Amber LED ON-Bypass<br>operation   Red LED ON-Fault |
| Output Connector                                                                                         | L1, L2, L3, Neutral & Ground output BUSBAR                                          |
| 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                               |
| Mounting                                                                                                                                                                                                                                                                               | Pad mounted                                                  |
| Overall Dimension (approx.)                                                                                                                                                                                                                                                            | As per Dimension Diagram of Panel Type 650x2020x2400         |
| Unpacked Weight (approx.)                                                                                                                                                                                                                                                              | 960 kg                                                       |
| ENVIRONMENTAL                                                                                                                                                                                                                                                                          |                                                              |
| Cooling Method                                                                                                                                                                                                                                                                         | Forced air                                                   |
| Operating Temperature Range                                                                                                                                                                                                                                                            | 0 to + 45 °C                                                 |
| Operating Humidity Range                                                                                                                                                                                                                                                               | 10 to 90% relative humidity (non-condensing)                 |
| <p>Note:</p> <p>1. The voltage regulation is based on 400V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.</p> <p>2. All standard models are optionally available in IP54.</p> |                                                              |

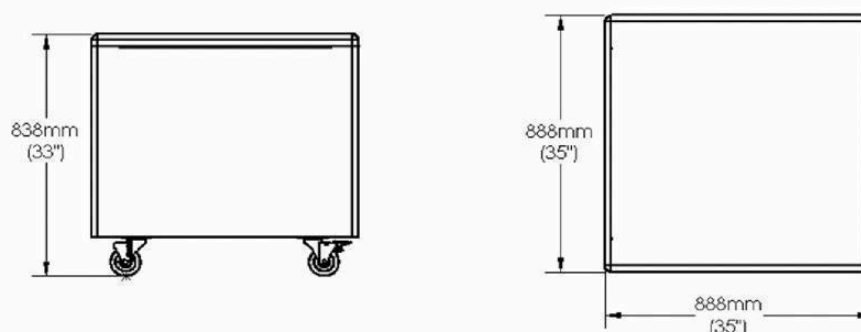
CUBICAL TYPE | 610 x 610 x 640 (in mm)



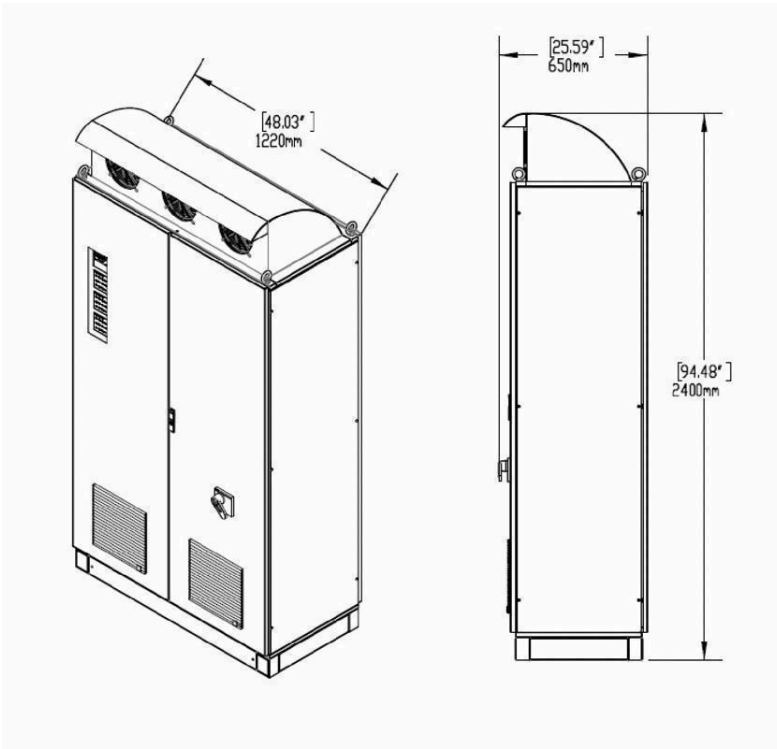
CUBICAL TYPE | 660 x 660 x 720 (in mm)



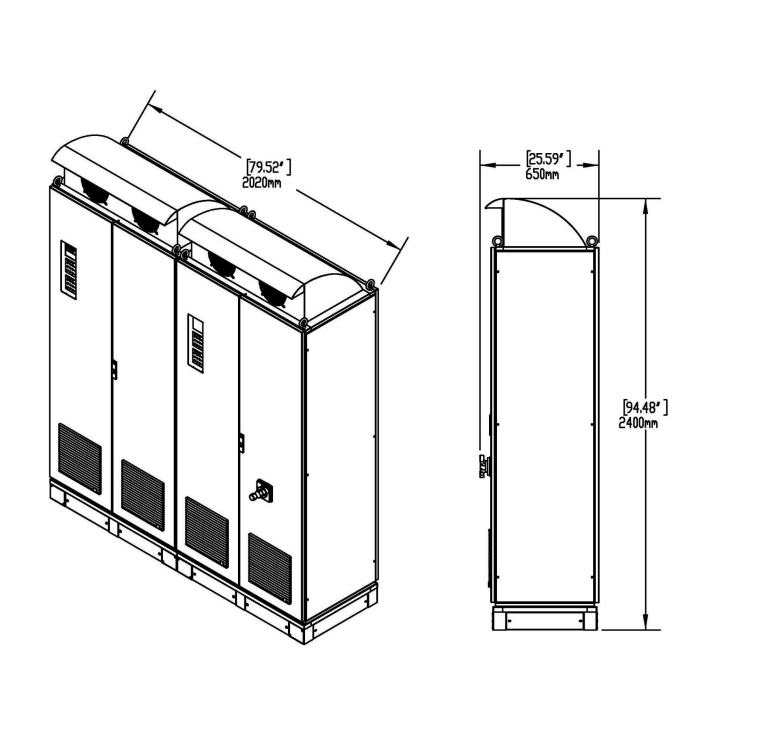
CUBICAL TYPE | 888 x 888 x 838 (in mm)



PANEL TYPE | 650 x 1220 x 2400 (in mm)



PANEL TYPE | 650 x 2020 x 2400 (in mm)







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