

PRODUCT SPECSHEET

PRODUCT: NPS VRP

CATEGORY: STATIC VOLTAGE STABILIZER / REGULATOR

SUB CATEGORY: NEUTRAL PROVIDER-CUM-STABILIZER

MODEL: THREE PHASE 3KVA TO 200KVA, $\pm 20\%$



TSi Power Pvt Ltd, 154-55, Siddhi Industrial Infra Park, Waghodia,
Vadodara-391760, Gujarat, India | +91-8000455999 | info@tsipower.in

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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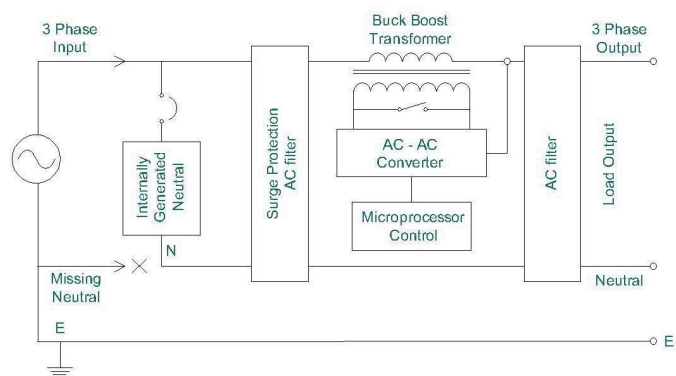
The **TSi NPS VRP series** is a cost-effective three phase automatic precision AC voltage regulator that ensures maintenance-free operation of electronic equipment over a wide range of input voltage range without having the need of an input neutral for carrying out its operation.



TSi NPS VRP series is designed to provide 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. This 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 NPS 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 -

- NPS VRP doesn't need input neutral.
- Ability to provide healthy output even if there is a break/failure of incoming neutral.
- Output load can be single phase as well as three phase.
- No change in wiring is required. Input will be three phase 4 wire and output will be three phase 5 wire.
- Static technology results in quiet operation, high product up-time & low maintenance.
- 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.

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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 - NPS-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) (voltage regulation accuracy of +/-1%)	320 - 480
Input Voltage Range (V) (for relaxed output regulation within functional range of 200-250V P-N)	277 - 520
Nominal Operating Frequency	47 - 63 Hz
Maximum Rated Input Current (A)	5
AC Input Connector	L1, L2, L3, Neutral & Ground input wires. Input neutral will not be used.
Overload & Short Circuit Protection	Through suitably rated input circuit breaker
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 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 operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 610x610x640
Unpacked Weight (approx.)	100 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
<i>Note: NPS VRP doesn't need input neutral.</i>	

TECHNICAL SPECIFICATIONS - NPS-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) (voltage regulation accuracy of +/-1%)	320 - 480
Input Voltage Range (V) (for relaxed output regulation within functional range of 200-250V P-N)	277 - 520
Nominal Operating Frequency	47 - 63 Hz
Maximum Rated Input Current (A)	11
AC Input Connector	L1, L2, L3, Neutral & Ground input wires. Input neutral will not be used.
Overload & Short Circuit Protection	Through suitably rated input circuit breaker
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 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 operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 610x610x640
Unpacked Weight (approx.)	100 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
<i>Note: NPS VRP doesn't need input neutral.</i>	

TECHNICAL SPECIFICATIONS - NPS-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) (voltage regulation accuracy of +/-1%)	320 - 480
Input Voltage Range (V) (for relaxed output regulation within functional range of 200-250V P-N)	277 - 520
Nominal Operating Frequency	47 - 63 Hz
Maximum Rated Input Current (A)	18
AC Input Connector	L1, L2, L3, Neutral & Ground input wires. Input neutral will not be used.
Overload & Short Circuit Protection	Through suitably rated input circuit breaker
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 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 operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 610x610x640
Unpacked Weight (approx.)	110 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
<i>Note: NPS VRP doesn't need input neutral.</i>	

TECHNICAL SPECIFICATIONS - NPS-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) (voltage regulation accuracy of +/-1%)	320 - 480
Input Voltage Range (V) (for relaxed output regulation within functional range of 200-250V P-N)	277 - 520
Nominal Operating Frequency	47 - 63 Hz
Maximum Rated Input Current (A)	27
AC Input Connector	L1, L2, L3, Neutral & Ground input wires. Input neutral will not be used.
Overload & Short Circuit Protection	Through suitably rated input circuit breaker
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 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 operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 610x610x640
Unpacked Weight (approx.)	125 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
<i>Note: NPS VRP doesn't need input neutral.</i>	

TECHNICAL SPECIFICATIONS - NPS-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) (voltage regulation accuracy of +/-1%)	320 - 480
Input Voltage Range (V) (for relaxed output regulation within functional range of 200-250V P-N)	277 - 520
Nominal Operating Frequency	47 - 63 Hz
Maximum Rated Input Current (A)	36
AC Input Connector	L1, L2, L3, Neutral & Ground input wires. Input neutral will not be used.
Overload & Short Circuit Protection	Through suitably rated input circuit breaker
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 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 operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 660x660x720
Unpacked Weight (approx.)	140 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
<i>Note: NPS VRP doesn't need input neutral.</i>	

TECHNICAL SPECIFICATIONS - NPS-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) (voltage regulation accuracy of +/-1%)	320 - 480
Input Voltage Range (V) (for relaxed output regulation within functional range of 200-250V P-N)	277 - 520
Nominal Operating Frequency	47 - 63 Hz
Maximum Rated Input Current (A)	45
AC Input Connector	L1, L2, L3, Neutral & Ground input wires. Input neutral will not be used.
Overload & Short Circuit Protection	Through suitably rated input circuit breaker
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 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 operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 660x660x720
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)
<i>Note: NPS VRP doesn't need input neutral.</i>	

TECHNICAL SPECIFICATIONS - NPS-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) (voltage regulation accuracy of +/-1%)	320 - 480
Input Voltage Range (V) (for relaxed output regulation within functional range of 200-250V P-N)	277 - 520
Nominal Operating Frequency	47 - 63 Hz
Maximum Rated Input Current (A)	54
AC Input Connector	L1, L2, L3, Neutral & Ground input wires. Input neutral will not be used.
Overload & Short Circuit Protection	Through suitably rated input circuit breaker
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 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 operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 660x660x720
Unpacked Weight (approx.)	155 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
<i>Note: NPS VRP doesn't need input neutral.</i>	

TECHNICAL SPECIFICATIONS - NPS-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) (voltage regulation accuracy of +/-1%)	320 - 480
Input Voltage Range (V) (for relaxed output regulation within functional range of 200-250V P-N)	277 - 520
Nominal Operating Frequency	47 - 63 Hz
Maximum Rated Input Current (A)	72
AC Input Connector	L1, L2, L3, Neutral & Ground input wires. Input neutral will not be used.
Overload & Short Circuit Protection	Through suitably rated input circuit breaker
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 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 operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display
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)
<i>Note: NPS VRP doesn't need input neutral.</i>	

TECHNICAL SPECIFICATIONS - NPS-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) (voltage regulation accuracy of +/-1%)	320 - 480
Input Voltage Range (V) (for relaxed output regulation within functional range of 200-250V P-N)	277 - 520
Nominal Operating Frequency	47 - 63 Hz
Maximum Rated Input Current (A)	90
AC Input Connector	L1, L2, L3, Neutral & Ground input wires. Input neutral will not be used.
Overload & Short Circuit Protection	Through suitably rated input circuit breaker
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 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 operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 888x888x838
Unpacked Weight (approx.)	230 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
<i>Note: NPS VRP doesn't need input neutral.</i>	

TECHNICAL SPECIFICATIONS - NPS-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) (voltage regulation accuracy of +/-1%)	320 - 480
Input Voltage Range (V) (for relaxed output regulation within functional range of 200-250V P-N)	277 - 520
Nominal Operating Frequency	47 - 63 Hz
Maximum Rated Input Current (A)	135
AC Input Connector	L1, L2, L3, Neutral & Ground input wires. Input neutral will not be used.
Overload & Short Circuit Protection	Through suitably rated input circuit breaker
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 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 operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x838 + Cabinet 2: As per Dimension Diagram of Cubical Type 690x650x930
Unpacked Weight (approx.)	280 kg + 150 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
<i>Note: NPS VRP doesn't need input neutral.</i>	

TECHNICAL SPECIFICATIONS - NPS-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) (voltage regulation accuracy of +/-1%)	320 - 480
Input Voltage Range (V) (for relaxed output regulation within functional range of 200-250V P-N)	277 - 520
Nominal Operating Frequency	47 - 63 Hz
Maximum Rated Input Current (A)	135
AC Input Connector	L1, L2, L3, Neutral & Ground input BUSBAR. Input neutral will not be used.
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 operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output BUSBAR. Fresh output neutral provided.
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display
Mounting	Pad mounted
Overall Dimension (approx.)	As per Dimension Diagram of Panel Type 650x1220x2400
Unpacked Weight (approx.)	500 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
<i>Note: NPS VRP doesn't need input neutral.</i>	

TECHNICAL SPECIFICATIONS - NPS-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) (voltage regulation accuracy of +/-1%)	320 - 480
Input Voltage Range (V) (for relaxed output regulation within functional range of 200-250V P-N)	277 - 520
Nominal Operating Frequency	47 - 63 Hz
Maximum Rated Input Current (A)	180
AC Input Connector	L1, L2, L3, Neutral & Ground input wires. Input neutral will not be used.
Overload & Short Circuit Protection	Through suitably rated input circuit breaker
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 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 operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x838 + Cabinet 2: As per Dimension Diagram of Cubical Type 690x650x930
Unpacked Weight (approx.)	310 kg + 150 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
<i>Note: NPS VRP doesn't need input neutral.</i>	

TECHNICAL SPECIFICATIONS - NPS-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) (voltage regulation accuracy of +/-1%)	320 - 480
Input Voltage Range (V) (for relaxed output regulation within functional range of 200-250V P-N)	277 - 520
Nominal Operating Frequency	47 - 63 Hz
Maximum Rated Input Current (A)	180
AC Input Connector	L1, L2, L3, Neutral & Ground input BUSBAR. Input neutral will not be used.
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 operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output BUSBAR. Fresh output neutral provided.
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display
Mounting	Pad mounted
Overall Dimension (approx.)	As per Dimension Diagram of Panel Type 650x1220x2400
Unpacked Weight (approx.)	600kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
<i>Note: NPS VRP doesn't need input neutral.</i>	

TECHNICAL SPECIFICATIONS - NPS-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) (voltage regulation accuracy of +/-1%)	320 - 480
Input Voltage Range (V) (for relaxed output regulation within functional range of 200-250V P-N)	277 - 520
Nominal Operating Frequency	47 - 63 Hz
Maximum Rated Input Current (A)	235
AC Input Connector	L1, L2, L3, Neutral & Ground input BUSBAR. Input neutral will not be used.
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 operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output BUSBAR. Fresh output neutral provided.
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display
Mounting	Panel-Pad mounted & Cubical-with Wheels (2 with brakes)
Overall Dimension (approx.)	Cabinet 1: As per Dimension Diagram of Panel Type 650x1220x2400 + Cabinet 2: As per Dimension Diagram of Cubical Type 690x650x930
Unpacked Weight (approx.)	630 kg + 150 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
Note: NPS VRP doesn't need input neutral.	

TECHNICAL SPECIFICATIONS - NPS-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) (voltage regulation accuracy of +/-1%)	320 - 480
Input Voltage Range (V) (for relaxed output regulation within functional range of 200-250V P-N)	277 - 520
Nominal Operating Frequency	47 - 63 Hz
Maximum Rated Input Current (A)	289
AC Input Connector	L1, L2, L3, Neutral & Ground input BUSBAR. Input neutral will not be used.
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 operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output BUSBAR. Fresh output neutral provided.
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display
Mounting	Panel-Pad mounted & Cubical-with Wheels (2 with brakes)
Overall Dimension (approx.)	Cabinet 1: As per Dimension Diagram of Panel Type 650x1220x2400 + Cabinet 2: As per Dimension Diagram of Cubical Type 690x650x930
Unpacked Weight (approx.)	670 kg + 150 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
Note: NPS VRP doesn't need input neutral.	

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

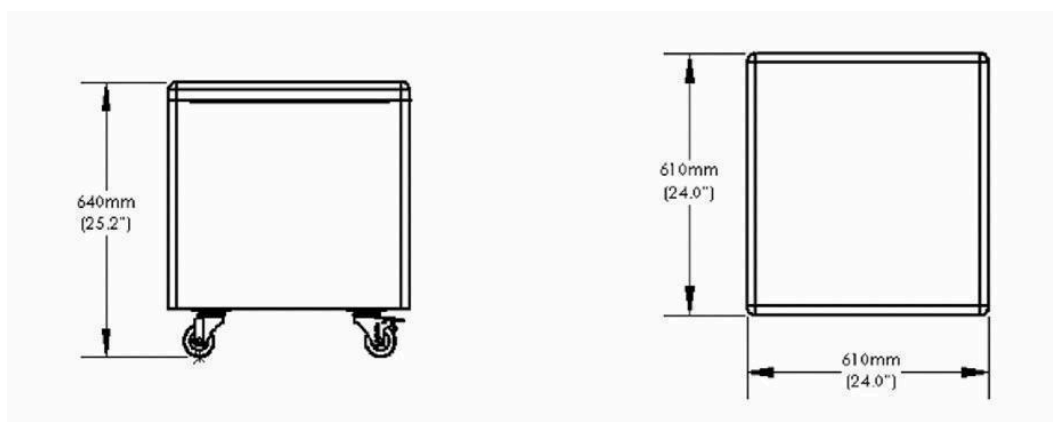
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ELECTRICAL	
Capacity (in KVA)	200
Switching Technology	20 kHz IGBT AC chopper/inverter
Voltage Compensation Time	20 ms typical
AC INPUT	
Nominal Input Voltage (V)	Three phase 400
Designed Input Voltage Range (V) (voltage regulation accuracy of +/-1%)	320 - 480
Input Voltage Range (V) (for relaxed output regulation within functional range of 200-250V P-N)	277 - 520
Nominal Operating Frequency	47 - 63 Hz
Maximum Rated Input Current (A)	361
AC Input Connector	L1, L2, L3, Neutral & Ground input BUSBAR. Input neutral will not be used.
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 operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output BUSBAR. Fresh output neutral provided.
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display
Mounting	Panel-Pad mounted & Cubical-with Wheels (2 with brakes)
Overall Dimension (approx.)	Cabinet 1: As per Dimension Diagram of Panel Type 650x1220x2400 + Cabinet 2: As per Dimension Diagram of Cubical Type 690x650x930
Unpacked Weight (approx.)	700 kg + 150 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
<i>Note: NPS VRP doesn't need input neutral.</i>	

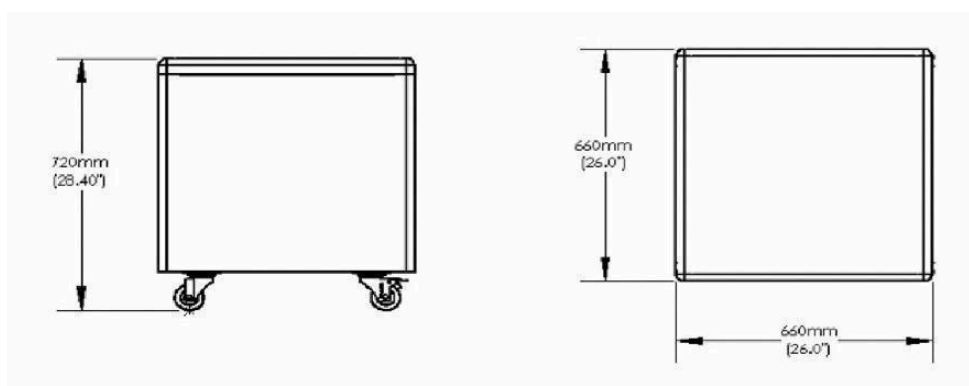
Dimension Diagrams

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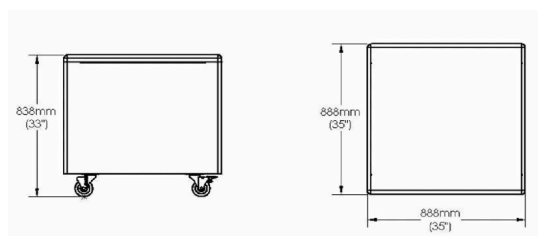
CUBICAL TYPE | 610 x 610 x 640 (in mm)



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

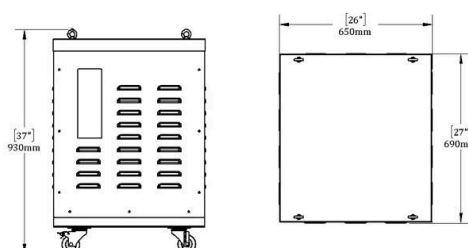


CUBICAL TYPE | 888 x 888 x 838 (in mm)

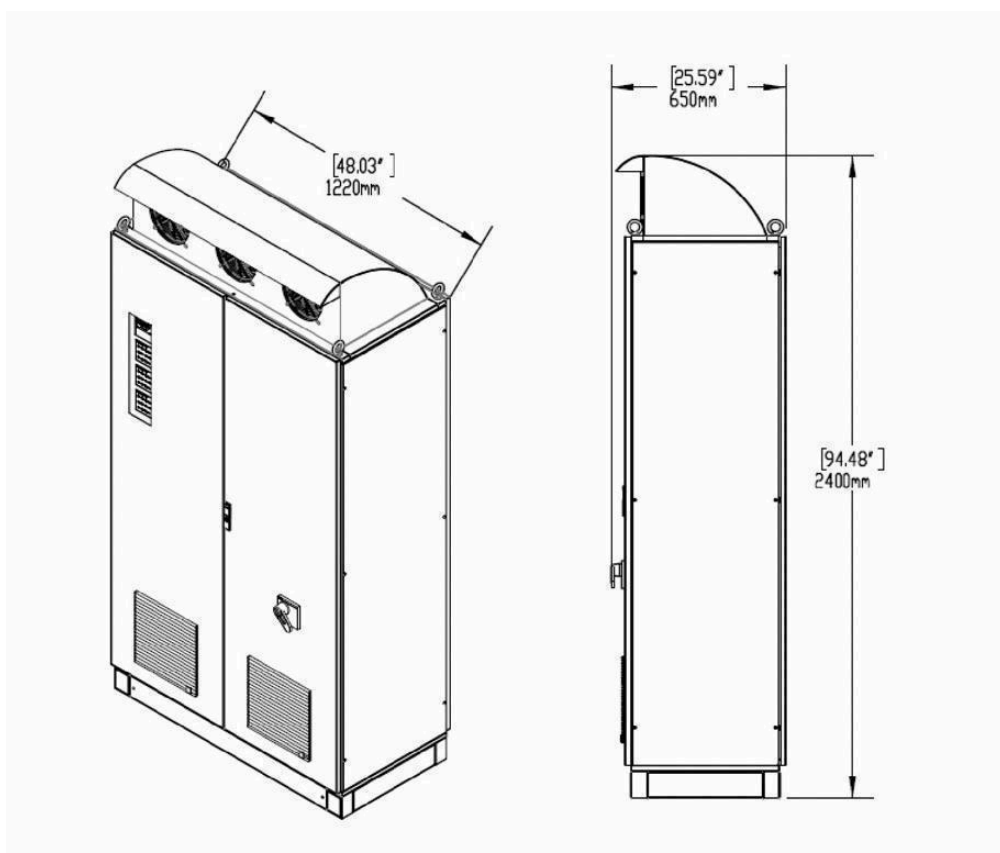


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CUBICAL TYPE | 690 x 650 x 930 (in mm)



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



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Contact us for a **free demo trial** or a **customised quote** or just a hello!

+91-8000455999 | +91-7567722666 | info@tsipower.in

TSi Power Pvt Ltd, 154-155, Siddhi Industrial Infra Park, Waghodia,
Vadodara, Gujarat 391760, India | www.tsipower.in