

### TSi-NPS VRP

### **NPS VRP**

#### Three Phase 6.5kVA to 75kVA, ± 26%



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

Three phase as well as single phase versions are available.

#### **How the NPS VRP works:**

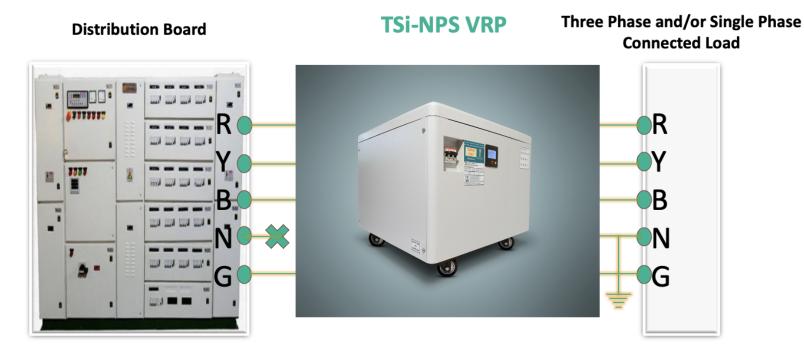
The high frequency Insulated Gate Bipolar Transistor (IGBT) driven converter takes the incoming AC power, measures it against the nominal voltage reference and then adds or subtracts a compensating voltage to achieve a precisely regulated 230 V output.

#### **Buck Boost** 3Phase 3Phase Transformer Input Output Surge Protection AC filter oad Output AC - AC Converter Microprocessor Control Missing Neutral Internally generated. Neutral

#### **Features and Benefits:**

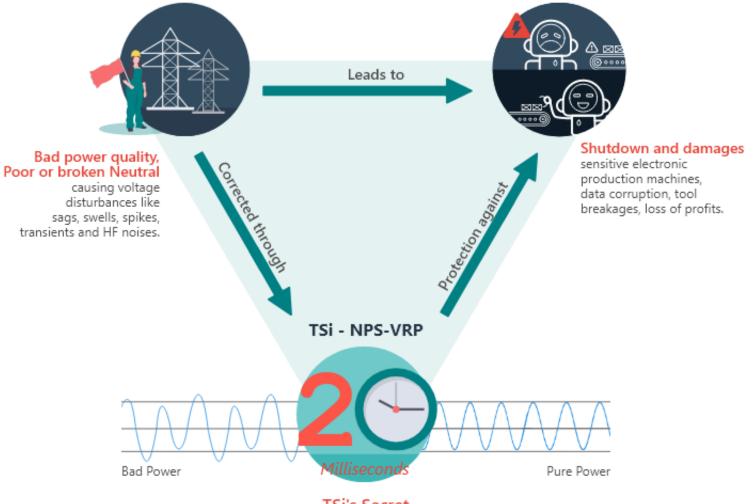
- NPS VRP doesn't need input neutral.
- Ability to provide healthy output even if there is a break/failure of incoming neutral.
- Provides the output voltage within +/-1% of the nominal voltage with real-time optimum voltage compensation, as well as spike & noise control.
- Output load can be single phase as well as three phase.
- No change in wiring is required. Input will be three phase 4 wire and output will be three phase 5 wire.
- Static technology results in quiet operation, high product up-time & low maintenance.
- Internal surge voltage protection assures trouble-free operation.
- AC input circuit breakers and load over current protection prevents costly equipment damage.
- Tight control over electronic card failures, data corruption and machine breakdowns result in higher productivity, lower operating costs, and greater consumer comfort.
- Lightweight and compact size makes for ease of installation.

Contact: +91-80004 55999 Email: info@tsipower.in Website: www.tsipower.in



#### Note:

- In NPS VRP, distribution of load is required.
- Maximum capacity per phase will be 1/3<sup>rd</sup> of the equipment capacity. Example: 30KVA NPS VRP can be loaded maximum 10KVA single phase per phase.



#### TSi's Secret

Corrects supply side disturbances due to sags/ swells/ spikes and supplies 'Pure Power' leading to no downtime in the production line.

All this is done within ITIC curve requirement of 20 milliseconds.

Model	NPS-VRP-6500-9339-260M
Electrical	
Capacity (in KVA)	6.5
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%)	295 - 500
Input voltage range (V)	
(for relaxed output regulation within	256 - 541
functional range of 200-250V P-N)	(F. 67.11
Nominal Operating Frequency	47 – 63 Hz
Maximum rated input current (A)	13
AC Input Connector	L1, L2, L3 & Ground input wires. Input neutral will not be used.
Overload & Short Circuit Protection	Through suitably rated input circuit breaker
AC Output	TI / (00
Nominal Output Voltage (V)	Three phase 400
Efficiency	Typical 95% (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
<b>Cabinet Weather Protection Ratings</b>	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display thru selector switch
Mounting	4 High Quality Castor wheels, 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 610x610x640
Unpacked Weight (approx.)	95 kg
Environmental	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)

<sup>\*</sup>NPS VRP doesn't need input neutral.

Model	NPS-VRP-10000-9339-260M
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%)	295 - 500
Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N)	256 - 541
Nominal Operating Frequency	47 – 63 Hz
Maximum rated input current (A)	20
AC Input Connector	L1, L2, L3 & Ground input wires. Input neutral will not be used.
Overload & Short Circuit Protection	Through suitably rated input circuit breaker
AC Output	
Nominal Output Voltage (V)	Three phase 400
Efficiency	Typical 95% (under 20 – 100 % load condition)
Output Voltage Compensation Range	+/- 1 %
Maximum Rated Output Current (A)	14
System Status Indicator	Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.
Surge Protection	Class II Surge Protection
Physical	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display thru selector switch
Mounting	4 High Quality Castor wheels, 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 610x610x640
Unpacked Weight (approx.)	140 kg
Environmental	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)

<sup>\*</sup>NPS VRP doesn't need input neutral.

Electrical Capacity (in KVA) Switching Technology 20 kHz IGBT AC chapper/inverter Voltage Compensation Time AC Input Nominal Input Voltage (V) Designed Input voltage range (V) (voltage regulation accuracy of */-1%) Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) Nominal Operating Frequency AC Input Connector  Overload & Short Circuit Protection AC Output Nominal Output Voltage (V) Efficiency Through suitably rated input circuit breaker AC Output Nominal Output Voltage (V) Fiftiency Typical 95% (under 20 - 100 % load condition) Output Voltage Compensation Range */-1% Maximum Rated Output Current (A) 23 System Status Indicator Curput Connector UL, L2, L3, Neutral & Ground output wires. Fresh output neutral provided. Surge Protection Physical Cabinet Construction RAL 7035 light grey powder coated CRCA cabinets Automatic AC-AC Converter Bypass Landard, will get activated when there is a fault condition Cabinet Weather Protection Ratings Display Digital output voltage display thru selector switch Mounting A High Quality Castor wheels, 2 with brakes Overall Dimension (approx.) As per Dimension Diagram of Cubical Type 610x610x640 Unpacked Weight (approx.) Environmental Cooling Method Operating Temperature Range O to + 45 °C Operating Humidity Range	Model	NPS-VRP-16000-9339-260M
Switching Technology  20 kHz IGBT AC chopper/inverter  Voltage Compensation Time  AC Input  Nominal Input Voltage (V)  Designed Input voltage range (V) (voltage regulation accuracy of +/-1%) Input voltage range (V) (voltage regulation accuracy of +/-1%) Input voltage range (V) (voltage regulation accuracy of +/-1%) Input voltage range (V) (voltage regulation accuracy of +/-1%) Input voltage range (V) (voltage regulation accuracy of +/-1%) Input voltage range (V) (voltage regulation accuracy of +/-1%) Input voltage range (V) (voltage compensation frequency  A7 – 63 Hz  Maximum rated input current (A)  AC Input Connector  Coverload & Short Circuit Protection  Through suitably rated input circuit breaker  AC Output  Nominal Output Voltage (V)  Efficiency  Typical 95% (under 20 –100 % load condition)  Output Voltage Compensation Range  Maximum Rated Output Current (A)  System Status Indicator  Creen 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.  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  AL High Quality Castor wheels, 2 with brakes  Display  Digital output voltage display thru selector switch  Mounting  A per Dimension Diagram of Cubical Type 610x610x640  Unpacked Weight (approx.)  Environmental  Cooling Method  Operating Temperature Range  Oto +45 °C	Electrical	
Voltage Compensation Time  AC Input  Nominal Input Voltage (V)  Designed Input voltage range (V) (voltage regulation accuracy of */-1%) Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N)  Nominal Operating Frequency  Maximum rated input current (A)  AC Input Connector  Curput  Nominal Output Voltage (V)  Three phase 400  Through suitably rated input circuit breaker  AC Output  Nominal Output Voltage (V)  Three phase 400  Efficiency  Typical 95% (under 20 - 100 % load condition)  Utput Voltage Compensation Range  Maximum Rated Output Current (A)  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  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  Physical  Cabinet Weather Protection Ratings  Digital output voltage display thru selector switch  Mounting  A High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  A sper Dimension Diagram of Cubical Type 610x610x640  Unpacked Weight (approx.)  Environmental  Cooling Method  Operating Temperature Range	Capacity (in KVA)	16
AC Input  Nominal Input Voltage (V) Designed Input voltage range (V) (voltage regulation accuracy of */-1%) Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) Nominal Operating Frequency  Maximum rated input current (A) AC Input Connector  L1, L2, L3 & Ground input wires. Input neutral will not be used.  Overload & Short Circuit Protection  Through suitably rated input circuit breaker  AC Output  Nominal Output Voltage (V) Three phase 400  Efficiency Typical 95% (under 20 – 100 % load condition)  Output Voltage Compensation Range  Maximum Rated Output Current (A)  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 Display Digital output voltage display thru selector switch  Mounting A High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.) As per Dimension Diagram of Cubical Type 6l0x6l0x640  Unpacked Weight (approx.) Environmental  Cooling Method Forced air Operating Temperature Range	Switching Technology	20 kHz IGBT AC chopper/inverter
Nominal Input Voltage (V)  Designed Input voltage range (V) (voltage regulation accuracy of +/-1%) Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) Nominal Operating Frequency  A7 - 63 Hz  Maximum rated input current (A)  AC Input Connector  L1, L2, L3 & Cround input wires. Input neutral will not be used.  Overload & Short Circuit Protection  AC Output Nominal Output Voltage (V)  Three phase 400  Efficiency  Typical 95% (under 20 - 100 % load condition)  Output Voltage Compensation Range  Maximum Rated Output Current (A)  System Status Indicator  Output Connector  L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.  Surge Protection  Physical  Cabinet Construction  Red LED ON-Hourn accurated when there is a fault condition  Physical  Cabinet Weather Protection Ratings  Display  Display  Display  Display  A High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  A sper Dimension Diagram of Cubical Type 610x610x640  Unpacked Weight (approx.)  Environmental  Cooling Method  Pocrating Temperature Range  O to + 45 °C	Voltage Compensation Time	20 ms typical
Designed Input voltage range (V) (voltage regulation accuracy of */-1%) Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) Nominal Operating Frequency  Maximum rated input current (A)  AC Input Connector  Overload & Short Circuit Protection  AC Output  Nominal Output Voltage (V)  Efficiency  Typical 95% (under 20 – 100 % load condition)  Output Voltage Compensation Range  Maximum Rated Output Current (A)  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  Cabinet Weather Protection Ratings  IP 20 (for use in protected indoor environments)  Display  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  L50 kg  Environmental  Cooling Method  Forced air  Oto + 45 °C	AC Input	
voltage regulation accuracy of +/-1%   Input voltage range (V)   (for relaxed output regulation within functional range of 200-250V P-N)		Three phase 400
(for relaxed output regulation within functional range of 200-250V P-N)  Nominal Operating Frequency  AZ Input Connector  AC Input Connector  AC Output  Nominal Output Voltage (V)  Efficiency  Output Voltage Compensation Range  Maximum Rated Output Current (A)  System Status Indicator  Green LED ON-Normal Operation - Amber LED ON-Bypass operation Red LED ON-Fault  Surge Protection  Class II Surge Protection  Physical  Cabinet Construction  RAL 7035 light grey powder coated CRCA cabinets  Automatic AC-AC Converter Bypass  Cabinet Weather Protection Ratings  Display  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  Environmental  Cooling Method  Proced air  Oto +45 °C	(voltage regulation accuracy of +/-1%)	295 - 500
Maximum rated input current (A)  AC Input Connector  L1, L2, L3 & Ground input wires. Input neutral will not be used.  Overload & Short Circuit Protection  Through suitably rated input circuit breaker  AC Output  Nominal Output Voltage (V)  Efficiency  Typical 95% (under 20 – 100 % load condition)  Output Voltage Compensation Range  Maximum Rated Output Current (A)  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  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  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  As per Dimension Diagram of Cubical Type 610x610x640  Unpacked Weight (approx.)  Forced air  Operating Temperature Range  O to + 45 °C	(for relaxed output regulation within	256 - 541
AC Input Connector  L1, L2, L3 & Ground input wires. Input neutral will not be used.  Overload & Short Circuit Protection  Through suitably rated input circuit breaker  AC Output  Nominal Output Voltage (V)  Efficiency  Typical 95% (under 20 – 100 % load condition)  Output Voltage Compensation Range  Maximum Rated Output Current (A)  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  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  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  As per Dimension Diagram of Cubical Type 610x610x640  Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Oto + 45 °C	Nominal Operating Frequency	47 – 63 Hz
Overload & Short Circuit Protection  AC Output  Nominal Output Voltage (V)  Efficiency  Output Voltage Compensation Range  Maximum Rated Output Current (A)  System Status Indicator  Output Connector  Surge Protection  Physical  Cabinet Construction  Automatic AC-AC Converter Bypass  Cabinet Weather Protection Ratings  Display  Display	Maximum rated input current (A)	31
AC Output  Nominal Output Voltage (V)  Efficiency  Typical 95% (under 20 – 100 % load condition)  Output Voltage Compensation Range  Maximum Rated Output Current (A)  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  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  As per Dimension Diagram of Cubical Type 610x610x640  Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range	AC Input Connector	L1, L2, L3 & Ground input wires. Input neutral will not be used.
Nominal Output Voltage (V)       Three phase 400         Efficiency       Typical 95% (under 20 −100 % load condition)         Output Voltage Compensation Range       +/- 1 %         Maximum Rated Output Current (A)       23         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       RAL 7035 light grey powder coated CRCA cabinets         Automatic AC-AC Converter Bypass       Standard, will get activated when there is a fault condition         Cabinet Weather Protection Ratings       IP 20 (for use in protected indoor environments)         Display       Digital output voltage display thru selector switch         Mounting       4 High Quality Castor wheels, 2 with brakes         Overall Dimension (approx.)       As per Dimension Diagram of Cubical Type 610x610x640         Unpacked Weight (approx.)       150 kg         Environmental       Forced air         Operating Temperature Range       0 to + 45 °C	Overload & Short Circuit Protection	Through suitably rated input circuit breaker
Efficiency  Output Voltage Compensation Range  Maximum Rated Output Current (A)  System Status Indicator  Output Connector  L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.  Surge Protection  Physical  Cabinet Construction  RAL 7035 light grey powder coated CRCA cabinets  Automatic AC-AC Converter Bypass  Cabinet Weather Protection Ratings  Display  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  Environmental  Cooling Method  Pirced air  Oto + 45 °C	AC Output	
Output Voltage Compensation Range+/-1%Maximum Rated Output Current (A)23System Status IndicatorGreen LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-FaultOutput ConnectorL1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.Surge ProtectionClass II Surge ProtectionPhysicalRAL 7035 light grey powder coated CRCA cabinetsAutomatic AC-AC Converter BypassStandard, will get activated when there is a fault conditionCabinet Weather Protection RatingsIP 20 (for use in protected indoor environments)DisplayDigital output voltage display thru selector switchMounting4 High Quality Castor wheels, 2 with brakesOverall Dimension (approx.)As per Dimension Diagram of Cubical Type 610x610x640Unpacked Weight (approx.)150 kgEnvironmentalForced airCooling MethodForced airOperating Temperature Range0 to + 45 °C	Nominal Output Voltage (V)	Three phase 400
Maximum Rated Output Current (A)       23         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       RAL 7035 light grey powder coated CRCA cabinets         Automatic AC-AC Converter Bypass       Standard, will get activated when there is a fault condition         Cabinet Weather Protection Ratings       IP 20 (for use in protected indoor environments)         Display       Digital output voltage display thru selector switch         Mounting       4 High Quality Castor wheels, 2 with brakes         Overall Dimension (approx.)       As per Dimension Diagram of Cubical Type 610x610x640         Unpacked Weight (approx.)       150 kg         Environmental       Cooling Method       Forced air         Operating Temperature Range       0 to + 45 °C	Efficiency	Typical 95% (under 20 – 100 % load condition)
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Surge Protection  Class II Surge Protection  Physical  Cabinet Construction  RAL 7035 light grey powder coated CRCA cabinets  Automatic AC-AC Converter Bypass  Standard, will get activated when there is a fault condition  Cabinet Weather Protection Ratings  IP 20 (for use in protected indoor environments)  Display  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  As per Dimension Diagram of Cubical Type 610x610x640  Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range	System Status Indicator	
Physical Cabinet Construction RAL 7035 light grey powder coated CRCA cabinets  Automatic AC-AC Converter Bypass Standard, will get activated when there is a fault condition Cabinet Weather Protection Ratings IP 20 (for use in protected indoor environments)  Display Digital output voltage display thru selector switch Mounting 4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.) As per Dimension Diagram of Cubical Type 610x610x640  Unpacked Weight (approx.)  150 kg  Environmental Cooling Method Forced air Operating Temperature Range	Output Connector	L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.
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Cabinet Weather Protection Ratings  IP 20 (for use in protected indoor environments)  Display  Digital output voltage display thru selector switch  4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  As per Dimension Diagram of Cubical Type 610x610x640  Unpacked Weight (approx.)  150 kg  Environmental  Cooling Method  Forced air  Operating Temperature Range	Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
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Overall Dimension (approx.)As per Dimension Diagram of Cubical Type 610x610x640Unpacked Weight (approx.)150 kgEnvironmentalForced airCooling MethodForced airOperating Temperature Range0 to + 45 °C	Display	Digital output voltage display thru selector switch
Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range  Oto + 45 °C	Mounting	4 High Quality Castor wheels, 2 with brakes
Environmental       Cooling Method     Forced air       Operating Temperature Range     0 to + 45 °C	Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 610x610x640
Cooling MethodForced airOperating Temperature Range0 to + 45 °C	Unpacked Weight (approx.)	150 kg
Operating Temperature Range 0 to + 45 °C	Environmental	
	Cooling Method	Forced air
Operating Humidity Range 10 to 90% relative humidity (non-condensing)	Operating Temperature Range	0 to + 45 °C
	Operating Humidity Range	10 to 90% relative humidity (non-condensing)

<sup>\*</sup>NPS VRP doesn't need input neutral.

Model	NPS-VRP-21000-9339-260M
Electrical	
Capacity (in KVA)	21
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%)	295 - 500
Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N)	256 - 541
Nominal Operating Frequency	47 – 63 Hz
Maximum rated input current (A)	41
AC Input Connector	L1, L2, L3 & Ground input wires. Input neutral will not be used.
Overload & Short Circuit Protection	Through suitably rated input circuit breaker
AC Output	
Nominal Output Voltage (V)	Three phase 400
Efficiency	Typical 95% (under 20 – 100 % load condition)
Output Voltage Compensation Range	+/- 1 %
Maximum Rated Output Current (A)	30
System Status Indicator	Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.
Surge Protection	Class II Surge Protection
Physical	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display thru selector switch
Mounting	4 High Quality Castor wheels, 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 610x610x640
Unpacked Weight (approx.)	175 kg
Environmental	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)

<sup>\*</sup>NPS VRP doesn't need input neutral.

Electrical Capacity (in KVA) Switching Technology 20 kHz IGBT AC chapper/inverter Voltage Compensation Time AC Input Nominal Input Voltage (V) Designed input voltage range (V) (voltage regulation accuracy of 4/-1%) Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) Nominal Operating Frequency AC Input Connector U1, L2, L3 & Ground input wires. Input neutral will not be used.  Overload & Short Circuit Protection Through suitably rated input circuit breaker AC Output Nominal Output Voltage (V) Three phase 400 Efficiency Typical 95% (under 20 - 100 % load condition) Output Voltage Compensation Range Maximum Rated Output Current (A) 36 System Status Indicator Curput Connector U1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided. 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 Page 10 (19 0 kg Protection Playsical Cabinet Weather Protection Ratings Page 10 (19 0 kg Protection Playsical Cabinet Weather Protection Ratings Page 10 (19 0 kg Protection Protection Ratings) Page 10 (19 0 kg Protection Protection Ratings) Page 10 (19 0 kg Protection Protection Ratings) Page 10 (19 0 kg Protection Ra	Model	NPS-VRP-25000-9339-260M
Switching Technology  20 kHz IGBT AC chopper/inverter  Voltage Compensation Time  AC Input  Nominal Input Voltage (V)  Designed Input voltage range (V) (voltage regulation accuracy of +/-1%) Input voltage range (V) (voltage regulation accuracy of +/-1%) Input voltage range (V) (voltage regulation accuracy of +/-1%) Input voltage range (V) (voltage regulation within functional range of 200-256V P-N)  Nominal Operating Frequency  AC Input Connector  L1, L2, L3 & Ground input wires. Input neutral will not be used.  Overload & Short Circuit Protection  Through suitably rated input circuit breaker  AC Output  Nominal Output Voltage (V)  Efficiency  Typical 95% (under 20 - 100 % load condition)  Output Voltage Compensation Range  Maximum Rated Output Current (A)  System Status Indicator  Creen 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.  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  Display  Digital output voltage display thru selector switch  Mounting  A High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  As per Dimension Diagram of Cubical Type 660x660x720  Unpacked Weight (approx.)  Environmental  Cooling Method  Operating Temperature Range  Oto +45 °C	Electrical	
Voltage Compensation Time  AC Input  Nominal Input Voltage (V)  Designed Input voltage range (V) (voltage regulation accuracy of */-1%) Input voltage range (V) (voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N)  Nominal Operating Frequency  AZ Input Connector  AC Input Connector  AC Output  Nominal Output Voltage (V)  Efficiency  Through suitably rated input circuit breaker  AC Output  Nominal Output Voltage (V)  Three phase 400  Efficiency  Typical 95% (under 20 – 100 % load condition)  Output Voltage Compensation Range  Maximum Rated Output Current (A)  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  RAL 7035 light grey powder coated CRCA cabinets  Automatic AC-AC Converter Bypass  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  Physical  Cabinet Weather Protection Ratings  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  As per Dimension Diagram of Cubical Type 660x660x720  Unpacked Weight (approx.)  Environmental  Cooling Method  Operating Temperature Range  O to + 45 °C	Capacity (in KVA)	25
AC Input  Nominal Input Voltage (V) Designed Input voltage range (V) (voltage range (V) (voltage range (V) (for relaxed output regulation accuracy of +f-1%) Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) Nominal Operating Frequency  A7 - 63 Hz  Maximum rated input current (A)  AC Input Connector  Curload & Short Circuit Protection  AC Output  Nominal Output Voltage (V) Three phase 400  Efficiency Typical 95% (under 20 - 100 % load condition) Output Voltage Compensation Range  Maximum Rated Output Current (A)  System Status Indicator  Output Connector  Class II Surge Protection  Physical  Cabinet Construction  Red LED ON-Fault  Cabinet Construction  Red LEO Converter Bypass  Standard, will get activated when there is a fault condition  Cabinet Weather Protection Ratings  Display  Digital output voltage display thru selector switch  Mounting  A per Dimension (approx.)  Link S Proced air  Operating Temperature Range  O to + 45 °C	Switching Technology	20 kHz IGBT AC chopper/inverter
Nominal Input Voltage (V)  Designed Input voltage range (V) (voltage regulation accuracy of +/-1%) Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) Nominal Operating Frequency  AC Input Connector  L1, L2, L3 & Cround input wires. Input neutral will not be used.  Overload & Short Circuit Protection  AC Output  Nominal Output Voltage (V)  Three phase 400  Efficiency  Typical 95% (under 20 – 100 % load condition)  Output Voltage Compensation Range  Maximum Rated Output Current (A)  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  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  Physical  Cabinet Weather Protection Ratings  Display  Display  Display  Display Or use in protected indoor environments)  Display  As per Dimension (approx.)  As per Dimension Diagram of Cubical Type 660x660x720  Unpacked Weight (approx.)  Environmental  Cooling Method  Operating Temperature Range  O to + 45 °C	Voltage Compensation Time	20 ms typical
Designed Input voltage range (V) (voltage regulation accuracy of */-1%) Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) Nominal Operating Frequency  AC Input Connector  Coverload & Short Circuit Protection  AC Output  Nominal Output Voltage (V)  Efficiency  Typical 95% (under 20 – 100 % load condition)  Output Voltage Compensation Range  Maximum Rated Output Current (A)  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  Cabinet Weather Protection Ratings  IP 20 (for use in protected indoor environments)  Display  Display  Display  Ay 194  Ay 47 – 63 Hz  47 – 63 Hz  49  AC Input Connector  L1, L2, L3, Seutral 8 Ground output wires. Fresh output neutral provided.  Cabinet Construction  RAL 7035 light grey powder coated CRCA cabinets  Standard, will get activated when there is a fault condition  Physical  Cabinet Weather Protection Ratings  IP 20 (for use in protected indoor environments)  Display  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  As per Dimension Diagram of Cubical Type 660x660x720  Unpacked Weight (approx.)  Environmental  Cooling Method  Operating Temperature Range  O to + 45 °C	AC Input	
(voltage regulation accuracy of +/-1%)   Input voltage range (V)   (for relaxed output regulation within functional range of 200-250V P-N)		Three phase 400
(for relaxed output regulation within functional range of 200-250V P-N)  Nominal Operating Frequency  AC Input Connector  Overload & Short Circuit Protection  AC Output  Nominal Output Voltage (V)  Efficiency  Typical 95% (under 20 – 100 % load condition)  Output Connector  Output Connector  L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.  System Status Indicator  Class II Surge Protection  Physical  Cabinet Construction  RAL 7035 light grey powder coated CRCA cabinets  Automatic AC-AC Converter Bypass  Cabinet Weather Protection Ratings  Display  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  Environmental  Cooling Method  Proced air  Oto +45 °C	(voltage regulation accuracy of +/-1%)	295 - 500
Maximum rated input current (A)  AC Input Connector  L1, L2, L3 & Ground input wires. Input neutral will not be used.  Overload & Short Circuit Protection  Through suitably rated input circuit breaker  AC Output  Nominal Output Voltage (V)  Efficiency  Typical 95% (under 20 – 100 % load condition)  Output Voltage Compensation Range  Maximum Rated Output Current (A)  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  Physical  Cabinet Construction  RAL 7035 light grey powder coated CRCA cabinets  Automatic AC-AC Converter Bypass  Standard, will get activated when there is a fault condition  Cabinet Weather Protection Ratings  IP 20 (for use in protected indoor environments)  Display  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  As per Dimension Diagram of Cubical Type 660x660x720  Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range	(for relaxed output regulation within	256 - 541
AC Input Connector  Display  L1, L2, L3 & Ground input wires. Input neutral will not be used.  Through suitably rated input circuit breaker  AC Output  Nominal Output Voltage (V)  Efficiency  Typical 95% (under 20 – 100 % load condition)  Output Voltage Compensation Range  Maximum Rated Output Current (A)  System Status Indicator  Creen 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  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  As per Dimension Diagram of Cubical Type 660x660x720  Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range	Nominal Operating Frequency	47 – 63 Hz
Overload & Short Circuit Protection  AC Output  Nominal Output Voltage (V)  Efficiency  Output Voltage Compensation Range  Maximum Rated Output Current (A)  System Status Indicator  Output Connector  Surge Protection  Physical  Cabinet Construction  Automatic AC-AC Converter Bypass  Cabinet Weather Protection Ratings  Display  Display  Display  Display  Display  Display  Display  As per Dimension (approx.)  Environmental  Cooling Method  Porced air  Output Contection Through suitably rated input circuit breaker  Through suitably rated input condition  Typical 95% (under 20 – 100 % load condition)  Red LED ON-Fault  Output Con-Amber LED ON-Bypass operation  Red LED ON-Bypass operation  Protect operation - Amber LED ON-Bypass operation  Red LED ON-Fault  Red LED ON-Fault  Red LED ON-Fault  Red LED ON-Fault  Red	Maximum rated input current (A)	49
AC Output Nominal Output Voltage (V)  Efficiency  Output Voltage Compensation Range  Maximum Rated Output Current (A)  System Status Indicator  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  Digital output voltage display thru selector switch  Mounting  A High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  As per Dimension Diagram of Cubical Type 660x660x720  Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range	AC Input Connector	L1, L2, L3 & Ground input wires. Input neutral will not be used.
Nominal Output Voltage (V)  Efficiency  Typical 95% (under 20 −100 % load condition)  Output Voltage Compensation Range  Maximum Rated Output Current (A)  System Status Indicator  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  Cabinet Weather Protection Ratings  Display  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.  RAL 7035 light grey powder coated CRCA cabinets  Standard, will get activated when there is a fault condition  L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.  Surge Protection  Physical  Cabinet Construction  RAL 7035 light grey powder coated CRCA cabinets  Standard, will get activated when there is a fault condition  L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.  Surge Protection  Physical  Cabinet Construction  RAL 7035 light grey powder coated CRCA cabinets  Standard, will get activated when there is a fault condition  L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.  Surge Protection  Physical  Cabinet Construction  RAL 7035 light grey powder coated CRCA cabinets  Standard, will get activated when there is a fault condition  Automatic AC-AC Converter Bypas  Standard, will get activated when there is a fault condition  Automatic AC-AC Converter Bypas  Standard, will get activated when there is a fault condition  Automatic AC-AC Converter Bypas  Standard, will get activated when there is a fault condition  Automatic AC-AC Converter Bypas  Standard, will get activated when there is a fault condition  Automatic AC-AC Converter Bypas  Standard, will get activated when there is a fault condition  Automatic AC-AC Converter Bypas  Standard, will get activated	Overload & Short Circuit Protection	Through suitably rated input circuit breaker
Efficiency  Output Voltage Compensation Range  Maximum Rated Output Current (A)  System Status Indicator  Output Connector  L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.  Surge Protection  Class II Surge Protection  Physical  Cabinet Construction  Automatic AC-AC Converter Bypass  Cabinet Weather Protection Ratings  Display  Display  Display  Display  Display  Display  As per Dimension Diagram of Cubical Type 660x660x720  Unpacked Weight (approx.)  Environmental  Cooling Method  Poreating Temperature Range  Oto + 45 °C	AC Output	
Output Voltage Compensation Range+/-1%Maximum Rated Output Current (A)36System Status IndicatorGreen LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-FaultOutput ConnectorL1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.Surge ProtectionClass II Surge ProtectionPhysicalRAL 7035 light grey powder coated CRCA cabinetsAutomatic AC-AC Converter BypassStandard, will get activated when there is a fault conditionCabinet Weather Protection RatingsIP 20 (for use in protected indoor environments)DisplayDigital output voltage display thru selector switchMounting4 High Quality Castor wheels, 2 with brakesOverall Dimension (approx.)As per Dimension Diagram of Cubical Type 660x660x720Unpacked Weight (approx.)190 kgEnvironmentalForced airCooling MethodForced airOperating Temperature Range0 to + 45 °C	Nominal Output Voltage (V)	Three phase 400
Maximum Rated Output Current (A)  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  Automatic AC-AC Converter Bypass  Standard, will get activated when there is a fault condition  Cabinet Weather Protection Ratings  Display  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  As per Dimension Diagram of Cubical Type 660x660x720  Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range	Efficiency	Typical 95% (under 20 – 100 % load condition)
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  Physical  Cabinet Construction  RAL 7035 light grey powder coated CRCA cabinets  Automatic AC-AC Converter Bypass  Standard, will get activated when there is a fault condition  Cabinet Weather Protection Ratings  IP 20 (for use in protected indoor environments)  Display  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  As per Dimension Diagram of Cubical Type 660x660x720  Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range	Output Voltage Compensation Range	+/- 1 %
Output Connector  L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.  Surge Protection  Class II Surge Protection  Physical  Cabinet Construction  Automatic AC-AC Converter Bypass  Cabinet Weather Protection Ratings  Display  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.  Class II Surge Protection  RAL 7035 light grey powder coated CRCA cabinets  Standard, will get activated when there is a fault condition  IP 20 (for use in protected indoor environments)  Display  Digital output voltage display thru selector switch  4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  As per Dimension Diagram of Cubical Type 660x660x720  Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range	Maximum Rated Output Current (A)	36
Surge Protection  Class II Surge Protection  Physical  Cabinet Construction  RAL 7035 light grey powder coated CRCA cabinets  Automatic AC-AC Converter Bypass  Standard, will get activated when there is a fault condition  Cabinet Weather Protection Ratings  IP 20 (for use in protected indoor environments)  Display  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  As per Dimension Diagram of Cubical Type 660x660x720  Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range	System Status Indicator	· · · · · · · · · · · · · · · · · · ·
Physical Cabinet Construction RAL 7035 light grey powder coated CRCA cabinets  Automatic AC-AC Converter Bypass Standard, will get activated when there is a fault condition Cabinet Weather Protection Ratings IP 20 (for use in protected indoor environments)  Display Digital output voltage display thru selector switch Mounting 4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.) As per Dimension Diagram of Cubical Type 660x660x720  Unpacked Weight (approx.) 190 kg  Environmental Cooling Method Forced air Operating Temperature Range	Output Connector	L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.
Cabinet ConstructionRAL 7035 light grey powder coated CRCA cabinetsAutomatic AC-AC Converter BypassStandard, will get activated when there is a fault conditionCabinet Weather Protection RatingsIP 20 (for use in protected indoor environments)DisplayDigital output voltage display thru selector switchMounting4 High Quality Castor wheels, 2 with brakesOverall Dimension (approx.)As per Dimension Diagram of Cubical Type 660x660x720Unpacked Weight (approx.)190 kgEnvironmentalForced airCooling MethodForced airOperating Temperature Range0 to + 45 °C	Surge Protection	Class II Surge Protection
Automatic AC-AC Converter Bypass  Standard, will get activated when there is a fault condition  Cabinet Weather Protection Ratings  IP 20 (for use in protected indoor environments)  Display  Digital output voltage display thru selector switch  4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  As per Dimension Diagram of Cubical Type 660x660x720  Unpacked Weight (approx.)  I90 kg  Environmental  Cooling Method  Forced air  Operating Temperature Range	Physical	
Cabinet Weather Protection Ratings  IP 20 (for use in protected indoor environments)  Display  Digital output voltage display thru selector switch  4 High Quality Castor wheels, 2 with brakes  Overall Dimension (approx.)  As per Dimension Diagram of Cubical Type 660x660x720  Unpacked Weight (approx.)  190 kg  Environmental  Cooling Method  Forced air  Operating Temperature Range	Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Display       Digital output voltage display thru selector switch         Mounting       4 High Quality Castor wheels, 2 with brakes         Overall Dimension (approx.)       As per Dimension Diagram of Cubical Type 660x660x720         Unpacked Weight (approx.)       190 kg         Environmental       Forced air         Operating Temperature Range       0 to + 45 °C	Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Mounting       4 High Quality Castor wheels, 2 with brakes         Overall Dimension (approx.)       As per Dimension Diagram of Cubical Type 660x660x720         Unpacked Weight (approx.)       190 kg         Environmental       Forced air         Operating Temperature Range       0 to + 45 °C	Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Overall Dimension (approx.)       As per Dimension Diagram of Cubical Type 660x660x720         Unpacked Weight (approx.)       190 kg         Environmental       Forced air         Cooling Method       Forced air         Operating Temperature Range       0 to + 45 °C	Display	Digital output voltage display thru selector switch
Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range  Oto + 45 °C	Mounting	4 High Quality Castor wheels, 2 with brakes
EnvironmentalCooling MethodForced airOperating Temperature Range0 to + 45 °C	Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 660x660x720
Cooling MethodForced airOperating Temperature Range0 to + 45 °C	Unpacked Weight (approx.)	190 kg
Operating Temperature Range 0 to + 45 °C	Environmental	
	Cooling Method	Forced air
Operating Humidity Range 10 to 90% relative humidity (non-condensing)	Operating Temperature Range	0 to + 45 °C
	Operating Humidity Range	10 to 90% relative humidity (non-condensing)

<sup>\*</sup>NPS VRP doesn't need input neutral.

Model	NPS-VRP-32000-9339-260M
Electrical	
Capacity (in KVA)	32
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%)	295 - 500
Input voltage range (V)	
(for relaxed output regulation within functional range of 200-250V P-N)	256 - 541
Nominal Operating Frequency	47 – 63 Hz
Maximum rated input current (A)	63
AC Input Connector	L1, L2, L3 & Ground input wires. Input neutral will not be used.
Overload & Short Circuit Protection	Through suitably rated input circuit breaker
AC Output	
Nominal Output Voltage (V)	Three phase 400
Efficiency	Typical 95% (under 20 – 100 % load condition)
Output Voltage Compensation Range	+/- 1 %
Maximum Rated Output Current (A)	46
System Status Indicator	Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.
Surge Protection	Class II Surge Protection
Physical	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display thru selector switch
Mounting	4 High Quality Castor wheels, 2 with brakes
Overall Dimension (approx.)	Cabinet 1: As per Dimension Diagram of Cubical Type 660x660x720
	Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800
Unpacked Weight (approx.)	165 kg + 90 kg
Environmental	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)

<sup>\*</sup>NPS VRP doesn't need input neutral.

Electrical   Capacity (in KVA)   40   Switching Technology   20 kHz IGBT AC chopper/inverter	Model	NPS-VRP-40000-9339-260M
Switching Technology  20 kHz IGBT AC chopper/inverter  Voltage Compensation Time  AC Input  Nominal Input Voltage (V)  Designed Input voltage range (V) (voltage regulation accuracy of +/-1%) Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N)  Nominal Operating Frequency  Maximum rated input current (A)  AC Input Connector  L1, L2, L3 & Cround input wires. Input neutral will not be used.  Overload & Short Circuit Protection  Through suitably rated input circuit breaker  AC Output  Nominal Output Voltage (V)  Efficiency  Typical 95% (under 20 – 100 % load condition)  Output Voltage Compensation Range  Maximum Rated Output Current (A)  System Status Indicator  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  Physical  Cabinet Weather Protection Ratings  Display  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Cabinet 1: As per Dimension Diagram of Cubical Type 550x550x800  Physical Cooling Method  Forced air  Operating Temperature Range  Oto +45°C	Electrical	
Voltage Compensation Time  AC Input  Nominal Input Voltage (V) Designed Input voltage range (V) (voltage regulation accuracy of */-1%) Input voltage range (V) (voltage regulation accuracy of */-1%) Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N)  Nominal Operating Frequency  Maximum rated input current (A)  AC Input Connector  Coverload & Short Circuit Protection  Through suitably rated input circuit breaker  AC Output  Nominal Output Voltage (V) Three phase 400  Efficiency  Typical 95% (under 20 – 100 % load condition)  Output Voltage Compensation Range  Maximum Rated Output Current (A)  System Status Indicator  Creen 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  Altomatic AC-AC Converter Bypass  Cabinet Weather Protection Ratings  Digital output voltage display thru selector switch  Mounting  A High Quality Castor wheels, 2 with brakes  Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x88  Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800  Unpacked Weight (approx.)  Environmental  Cooling Method  Operating Temperature Range  Oto +45°C	Capacity (in KVA)	40
AC Input Nominal Input Voltage (V) Designed Input voltage range (V) (voltage regulation accuracy of */-1%) Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) Nominal Operating Frequency Maximum rated input current (A) AC Input Connector User Input Voltage (V)  Worload & Short Circuit Protection Through suitably rated input circuit breaker AC Output Nominal Output Voltage (V) Three phase 400 Efficiency Typical 95% (under 20 – 100 % load condition)  Output Voltage Compensation Range Maximum Rated Output Current (A) 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 Output Weather Protection Ratings Display Digital output voltage display thru selector switch Mounting 4 High Quality Castor wheels, 2 with brakes Overall Dimension (approx.) Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x88  Cabinet 2: As per Dimension Diagram of Cubical Type 888x888x88  Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800  Unpacked Weight (approx.) Environmental Cooling Method Forced air Operating Temperature Range	Switching Technology	20 kHz IGBT AC chopper/inverter
Nominal Input Voltage (V)  Designed Input voltage range (V) (voltage regulation accuracy of +/-1%) Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) Nominal Operating Frequency  Maximum rated input current (A)  AC Input Connector  L1, L2, L3 & Ground input wires. Input neutral will not be used.  Overload & Short Circuit Protection  Through suitably rated input circuit breaker  AC Output  Nominal Output Voltage (V)  Three phase 400  Efficiency  Typical 95% (under 20 – 100 % load condition)  Output Voltage Compensation Range  Maximum Rated Output Current (A)  S8  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  Display  Display Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Cabinet 1: As per Dimension Diagram of Cubical Type 868x888x888  Overall Dimension (approx.)  L1, L2 As Pool Red LED ON Pool Red LED ON Pool Red LED Red LED Cubical Type 550x550x800  Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range	Voltage Compensation Time	20 ms typical
Designed Input voltage range (V) (voltage regulation accuracy of 4/1%) (Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N)  Mominal Operating Frequency  Maximum rated input current (A)  AC Input Connector  L1, L2, L3 & Ground input wires. Input neutral will not be used.  Overload & Short Circuit Protection  Through suitably rated input circuit breaker  AC Output  Nominal Output Voltage (V)  Three phase 400  Efficiency  Typical 95% (under 20 – 100 % load condition)  Output Voltage Compensation Range  4/- 1%  Maximum Rated Output Current (A)  S8  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  Display  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x888  Overall Dimension (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range  O to + 45 °C	AC Input	
Input voltage regulation accuracy of +/-1%   Input voltage range (V)	Nominal Input Voltage (V)	Three phase 400
Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N) Nominal Operating Frequency  A7 - 63 Hz  Maximum rated input current (A)  AC Input Connector  Derivation of the first		295 - 500
(For relaxed output regulation within functional range of 200-250V P-N)       256 - 541         Nominal Operating Frequency       47 - 63 Hz         Maximum rated input current (A)       78         AC Input Connector       L1, L2, L3 & Ground input wires. Input neutral will not be used.         Overload & Short Circuit Protection       Through suitably rated input circuit breaker         AC Output       Through suitably rated input circuit breaker         Nominal Output Voltage (V)       Three phase 400         Efficiency       Typical 95% (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         Cabinet Construction       RAL 7035 light grey powder coated CRCA cabinets         Automatic AC-AC Converter Bypass       Standard, will get activated when there is a fault condition         Cabinet Weather Protection Ratings       IP 20 (for use in protected indoor environments)         Display       Digital output voltage display thru selector switch         Mount		
Nominal Operating Frequency   47 - 63 Hz	(for relaxed output regulation within	256 - 541
Maximum rated input current (A)       78         AC Input Connector       L1, L2, L3 & Ground input wires. Input neutral will not be used.         Overload & Short Circuit Protection       Through suitably rated input circuit breaker         AC Output       Three phase 400         Efficiency       Typical 95% (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       RAL 7035 light grey powder coated CRCA cabinets         Automatic AC-AC Converter Bypass       Standard, will get activated when there is a fault condition         Cabinet Weather Protection Ratings       IP 20 (for use in protected indoor environments)         Display       Digital output voltage display thru selector switch         Mounting       4 High Quality Castor wheels, 2 with brakes         Cabinet 1: As per Dimension Diagram of Cubical Type 888x88x888         Overall Dimension (approx.)       240 kg + 100 kg         Environmental       Cooling Method       Forced air         Operating Temperature Range <t< th=""><th>· · · · · · · · · · · · · · · · · · ·</th><th>47</th></t<>	· · · · · · · · · · · · · · · · · · ·	47
AC Input Connector  Display  AC Input Connector  L1, L2, L3 & Ground input wires. Input neutral will not be used.  Through suitably rated input circuit breaker  AC Output  Nominal Output Voltage (V)  Efficiency  Typical 95% (under 20 – 100 % load condition)  Output Voltage Compensation Range  Maximum Rated Output Current (A)  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  Display  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x888  Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800  Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range	·	
Overload & Short Circuit Protection  AC Output  Nominal Output Voltage (V)  Efficiency  Typical 95% (under 20 – 100 % load condition)  Output Voltage Compensation Range  Maximum Rated Output Current (A)  System Status Indicator  Output Connector  L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.  Surge Protection  Physical  Cabinet Construction  RAL 7035 light grey powder coated CRCA cabinets  Automatic AC-AC Converter Bypass  Display  Display  Digital output voltage display thru selector switch  Mounting  A High Quality Castor wheels, 2 with brakes  Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x888  Overall Dimension (approx.)  Environmental  Cooling Method  Forced air  Oto + 45 °C		
AC Output  Nominal Output Voltage (V)  Efficiency  Output Voltage Compensation Range  Maximum Rated Output Current (A)  System Status Indicator  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  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x838  Overall Dimension (approx.)  Environmental  Cooling Method  Forced air  Oto + 45°C		
Nominal Output Voltage (V)   Three phase 400		Through suitably rated input circuit breaker
Efficiency  Output Voltage Compensation Range  Maximum Rated Output Current (A)  Sg  System Status Indicator  Creen 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  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  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x838  + Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800  Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range		
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       RAL 7035 light grey powder coated CRCA cabinets         Automatic AC-AC Converter Bypass       Standard, will get activated when there is a fault condition         Cabinet Weather Protection Ratings       IP 20 (for use in protected indoor environments)         Display       Digital output voltage display thru selector switch         Mounting       4 High Quality Castor wheels, 2 with brakes         Cabinet 1: As per Dimension Diagram of Cubical Type 888x88x88x88         Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800         Unpacked Weight (approx.)       240 kg + 100 kg         Environmental       Forced air         Cooling Method       Forced air         Operating Temperature Range       0 to + 45 °C	Nominal Output Voltage (V)	·
Maximum Rated Output Current (A)  System Status Indicator  Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault  Output Connector  L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.  Surge Protection  Class II Surge Protection  Physical  Cabinet Construction  RAL 7035 light grey powder coated CRCA cabinets  Automatic AC-AC Converter Bypass  Standard, will get activated when there is a fault condition  Cabinet Weather Protection Ratings  IP 20 (for use in protected indoor environments)  Display  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x838  + Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800  Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range	Efficiency	Typical 95% (under 20 – 100 % load condition)
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  Cabinet Weather Protection Ratings  IP 20 (for use in protected indoor environments)  Display  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x838  Cabinet 1: As per Dimension Diagram of Cubical Type 550x550x800  Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range	Output Voltage Compensation Range	+/- 1 %
System Status IndicatorRed LED ON-FaultOutput ConnectorL1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.Surge ProtectionClass II Surge ProtectionPhysicalCabinet ConstructionRAL 7035 light grey powder coated CRCA cabinetsAutomatic AC-AC Converter BypassStandard, will get activated when there is a fault conditionCabinet Weather Protection RatingsIP 20 (for use in protected indoor environments)DisplayDigital output voltage display thru selector switchMounting4 High Quality Castor wheels, 2 with brakesOverall Dimension (approx.)*Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x838Overall Opprox.)240 kg + 100 kgEnvironmentalEnvironmentalCooling MethodForced airOperating Temperature Range0 to + 45 °C	Maximum Rated Output Current (A)	
Surge Protection  Class II Surge Protection  Physical  Cabinet Construction  RAL 7035 light grey powder coated CRCA cabinets  Automatic AC-AC Converter Bypass  Standard, will get activated when there is a fault condition  Cabinet Weather Protection Ratings  IP 20 (for use in protected indoor environments)  Display  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Cabinet 1: As per Dimension Diagram of Cubical Type 888x88x838  + Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800  Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range	System Status Indicator	,
Physical         Cabinet Construction       RAL 7035 light grey powder coated CRCA cabinets         Automatic AC-AC Converter Bypass       Standard, will get activated when there is a fault condition         Cabinet Weather Protection Ratings       IP 20 (for use in protected indoor environments)         Display       Digital output voltage display thru selector switch         Mounting       4 High Quality Castor wheels, 2 with brakes         Cabinet 1: As per Dimension Diagram of Cubical Type 888x88x838         Overall Dimension (approx.)       +         Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800         Unpacked Weight (approx.)       240 kg + 100 kg         Environmental       Forced air         Operating Temperature Range       0 to + 45 °C	Output Connector	L1, L2, L3, Neutral & Ground output wires. Fresh output neutral provided.
Cabinet ConstructionRAL 7035 light grey powder coated CRCA cabinetsAutomatic AC-AC Converter BypassStandard, will get activated when there is a fault conditionCabinet Weather Protection RatingsIP 20 (for use in protected indoor environments)DisplayDigital output voltage display thru selector switchMounting4 High Quality Castor wheels, 2 with brakesOverall Dimension (approx.)Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x838Unpacked Weight (approx.)240 kg + 100 kgEnvironmentalForced airCooling MethodForced airOperating Temperature Range0 to + 45 °C	Surge Protection	Class II Surge Protection
Automatic AC-AC Converter Bypass  Cabinet Weather Protection Ratings  Display  Digital output voltage display thru selector switch  High Quality Castor wheels, 2 with brakes  Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x838  Overall Dimension (approx.)  Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800  Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range	Physical	
Cabinet Weather Protection Ratings  Display  Digital output voltage display thru selector switch  Mounting  4 High Quality Castor wheels, 2 with brakes  Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x838  Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800  Unpacked Weight (approx.)  Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800  Environmental  Cooling Method  Forced air  Operating Temperature Range	Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Display  Digital output voltage display thru selector switch  4 High Quality Castor wheels, 2 with brakes  Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x838  + Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800  Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range	Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Mounting  4 High Quality Castor wheels, 2 with brakes  Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x838  + Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800  Unpacked Weight (approx.)  240 kg + 100 kg  Environmental  Cooling Method  Forced air  Operating Temperature Range  0 to + 45 °C	Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Overall Dimension (approx.)  Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x838  + Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800  Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range  Cabinet 1: As per Dimension Diagram of Cubical Type 550x550x800  Forced air	Display	Digital output voltage display thru selector switch
Overall Dimension (approx.)  + Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800  Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range  + Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800  Environmental  Forced air	Mounting	4 High Quality Castor wheels, 2 with brakes
Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800  Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range  Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800  Environmental  Forced air	Overall Bimonoion (annual)	Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x838
Unpacked Weight (approx.)  Environmental  Cooling Method  Forced air  Operating Temperature Range  O to + 45 °C	Overall Dimension (approx.)	Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800
Cooling MethodForced airOperating Temperature Range0 to + 45 °C	Unpacked Weight (approx.)	<u> </u>
Operating Temperature Range 0 to + 45 °C	Environmental	
	Cooling Method	Forced air
Operating Humidity Range 10 to 90% relative humidity (non-condensing)	Operating Temperature Range	0 to + 45 °C
	Operating Humidity Range	10 to 90% relative humidity (non-condensing)

<sup>\*</sup>NPS VRP doesn't need input neutral.

Model	NPS-VRP-50000-9339-260M
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%)	295 – 500
Input voltage range (V)	
(for relaxed output regulation within functional range of 200-250V P-N)	256 - 541
Nominal Operating Frequency	47 – 63 Hz
Maximum rated input current (A)	98
AC Input Connector	L1, L2, L3 & Ground input wires. Input neutral will not be used.
Overload & Short Circuit Protection	Through suitably rated input circuit breaker
AC Output	
Nominal Output Voltage (V)	Three phase 400
Efficiency	Typical 95% (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 thru selector switch
Mounting	4 High Quality Castor wheels, 2 with brakes
Overall Dimension (approx.)	Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x838
Overall Diffierbion (approx.)	Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800
Unpacked Weight (approx.)	285 kg + 120 kg
Environmental	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)

<sup>\*</sup>NPS VRP doesn't need input neutral.

Model	NPS-VRP-50000-9339-260MP
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%)	295 - 500
Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N)	256 - 541
Nominal Operating Frequency	47 – 63 Hz
Maximum rated input current (A)	98
AC Input Connector	L1, L2, L3 & 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 95% (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 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 thru selector switch
Mounting	Pad mounted
Overall Dimension (approx.)	As per Dimension Diagram of Panel Type 650x1020x2150
Unpacked Weight (approx.)	480 kg
Environmental	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)

<sup>\*</sup>NPS VRP doesn't need input neutral.

Model	NPS-VRP-75000-9339-260M
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%)	295 - 500
Input voltage range (V)	
(for relaxed output regulation within	256 - 541
functional range of 200-250V P-N)	
Nominal Operating Frequency	47 – 63 Hz
Maximum rated input current (A)	147
AC Input Connector	L1, L2, L3 & Ground input wires. Input neutral will not be used.
Overload & Short Circuit Protection	Through suitably rated input circuit breaker
AC Output	
Nominal Output Voltage (V)	Three phase 400
Efficiency	Typical 95% (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 thru selector switch
Mounting	4 High Quality Castor wheels, 2 with brakes
Overall Dimension (survey)	Cabinet 1: As per Dimension Diagram of Cubical Type 888x888x838
Overall Dimension (approx.)	+ Cabinet 2: As per Dimension Diagram of Cubical Type 550x550x800
Unpacked Weight (approx.)	310 kg + 140 kg
Environmental	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)

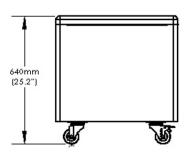
<sup>\*</sup>NPS VRP doesn't need input neutral.

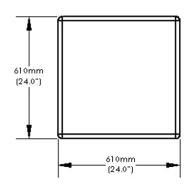
Model	NPS-VRP-75000-9339-260MP
Electrical	
Capacity (in KVA)	75
Switching Technology	20 kHz IGBT AC chopper/inverter
Voltage Compensation Time	20 ms typical
AC Input	
Nominal Input Voltage (V)	Three phase 400
Designed Input voltage range (V) (voltage regulation accuracy of +/-1%)	295 - 500
Input voltage range (V) (for relaxed output regulation within functional range of 200-250V P-N)	256 - 541
Nominal Operating Frequency	47 – 63 Hz
Maximum rated input current (A)	147
AC Input Connector	L1, L2, L3 & 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 95% (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 thru selector switch
Mounting	Pad mounted
Overall Dimension (approx.)	As per Dimension Diagram of Panel Type 650x1020x2150
Unpacked Weight (approx.)	580 kg
Environmental	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)

<sup>\*</sup>NPS VRP doesn't need input neutral.

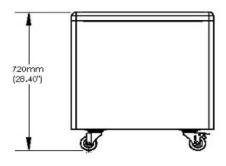
### **Dimension Diagrams**

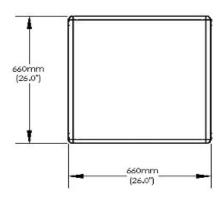
#### **CUBICAL TYPE 610x610x640**





#### **CUBICAL TYPE 660x660x720**

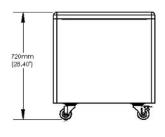


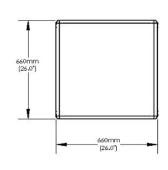


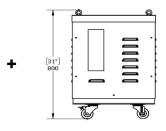
### **Dimension Diagrams**

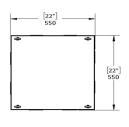
#### **CUBICAL TYPE 660x660x720**

### **CUBICAL TYPE 550x550x800**





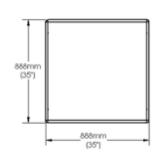


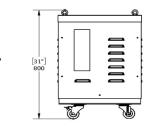


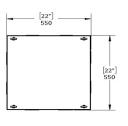
#### **CUBICAL TYPE 888x888x838**

#### **CUBICAL TYPE 550x550x800**



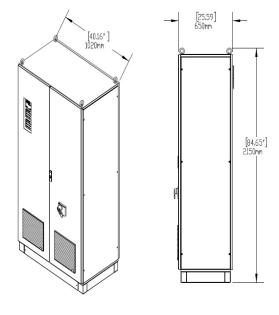






### **Dimension Diagrams**

#### **PANEL TYPE 650x1020x2150**





TSi Power Pvt. Ltd.

| 154-155, Siddhi Industrial Infra Park | | Waghodia, Vadodara, Gujarat, India 391760 | | Tel: + 91-80004 55999 / +91-75677 22666 | | info@tsipower.in | https://tsipower.in |