

TSi Power Pvt. Ltd. is involved in manufacturing of **IGBT based PWM Static Voltage Regulator with Precision (VRP)**. It is suitable for applications where stable power is mandatory for **high-endpower and control electronics** used in:

1. *CNC & Robotics*
2. *Auto & Auto-ancillary*
3. *Textile Spinning, Processing, Knitting & Weaving*
4. *Engineering & Process Industry*
5. *Wood Cutting*
6. *Oil & Gas*
7. *Radar & Telecommunication*
8. *R & D, Testing, Diagnostics*
9. *Plastic Processing*
10. *Printing & Packaging*
11. *Security and Surveillance*
12. *Building Management and other hi-tech applications.*

It provides **precision power** with **real-time** control of:

- a) **Sag**
 - b) **Swell**
 - c) **Noise**
 - d) **Spike** & other damaging voltage disturbances within **20 milliseconds** for **improved productivity** of your electronic machines & **increased profits**.
- **Standard single-phase Static Voltage Regulators with Precision (VRP)** units are available in **+/- 20% and +/- 26%** fluctuation range with capacities ranging from **1KVA to 100KVA**.
 - **Standard three-phase Static Voltage Regulators with Precision (VRP)** units are available in **+/- 13%, +/- 20%, +/- 26% and +/-12%** fluctuation range with capacities ranging from **3KVA to 315KVA**.

These **Static Voltage Regulators with Precision (VRP)** are **plug & play** type, **easy to install** and are **light in weight**. They are available for both **indoor installation** as well as **outdoor installation**.

Key Features:

- **The TSi-VRP system provides real-time control of Sag, Swell, Noise, Spike and Transients within 20 milliseconds.**

- ***In-built Spike and Noise Control Filters.***
- *Since the VRP does not switch components in the power path, it is **compatible with most loads including regenerative loads.***
- *AC input circuit breakers prevent costly equipment damage due to load side faults.*
- ***Automatic Bypass for Regulator Engine*** assures fail safe operation.
- ***Light weight&Compact size*** makes for ***ease of installation.***
- ***Static technology*** results in ***quiet operation, high product up-time & low maintenance.***
- ***High efficiency and energy savings*** through optimum voltage result in energy efficient operation.
- ***Tight control over electronic card failures, data corruption and machine breakdowns*** result in ***higher productivity, lower operating costs, and greater consumer comfort.***

Few Technical Specification:

- Available in both ***Single phase and Three phase***
- **Single Phase VRP Capacity (KVA):** *1 KVA to 100 KVA*
- **Three Phase VRP Capacity (KVA):** *3 KVA to 315 KVA*
- **Regulator Engine:** *High frequency 20 Khz IGBT driven voltage regulation convertor.*
- **Nominal Input Voltage:***415 Volts ac (Can be pre-set at any value between 380-415V)*
- **Input Voltage Fluctuation Ranges:** *+/- 13%, +/- 20%, +/- 26% and +/-12%*
- **Typical Output Voltage regulation:** *+/- 1%*
- **Power efficiency:** *over 97 %*
- **Dimensions (mm):** *610(D) x 610(W) x 640(H) for 3KVA to 888(D) x 888(W) x 838(H)for 160 KVA unit&800(D) x 1200(W) x 2000(H) for 315KVA*
- **LED display for Regulation mode, Bypass mode & Fault conditions.**