

## BENEFITS

- Wide choice of input voltage ranges
- Symmetrical or asymmetrical voltage ranges
- Compatible with voltage asymmetries between phases
- Suitable to protect sensitive and critical equipments from erratic voltages.
- IGBT DSPiC based technology.\
- Ultrafast voltage correction. 1% tightest regulation.
- Auto bypass. (no need to reset manually).

## Application:

- Automation process equipments.
- Medical Sonography unit
- CT-MRI scanning unit
- UPS system protection
- CNC machines
- Discrete manufacturing, food and beverage
- Public infrastructure and transportation
- Malls, leisure, and service sector

TEZ by Triveni Enterprises is a range of voltage stabilizers that offers great output voltage stability despite wide input voltage fluctuations.

TEZ technology reduces mechanical wear extending periods between maintenance.



## Range Overview:

TEZ is a range of static voltage stabilizers. The main function of TEZ range is to supply critical AC connected loads with a regulated and **stabilized AC voltage despite wide variations on the mains AC input supply voltage.**

TEZ range is available in 3 versions:

- **TEZ VSLV** from 1 kVA to 30 kVA, single-phase
- **TEZ VSHV** from 4 kVA to 200 kVA, three-phase
- **TEZ VSHV+** from 60 kVA to 1200 kVA, three-phase



## Key Features:

- Continuous operation at full load at 45 °C ambient to meet industrial-level reliability requirements
- Compatible with any type of load, linear or non linear, balanced or 100% unbalanced
- Maintained output voltage stability over the full load variation, from 0 to 100%
- Negligible output voltage distortion to safely supply the connected loads
- Low internal impedance allowing the capability to sustain high output surge current

## Comparative Analysis of TEZ Static voltage stabilizer and other regular stabilizers

Specifications	TEZ Voltage Stabilizers	Other brand static voltage stabilizer	Servo voltage stabilizer	Tap changing voltage AVR
Correction speed	Ultra-Fast	Fast	Very slow	Slow
Correction time	0.5 – 1 ms	20 ms – 3 sec	50 ms – 5 sec	200 ms- 1 sec
Auto-bypass	Yes	Yes	No	No
Stability	98 – 99 %	97- 98 %	97%	94- 97 %
Reliability	Longest life	Good	Fair	Average
Load protection	Excellent	Good	Fair	Poor
Voltage fluctuation control	Excellent @ 20,000 Volt/sec	Average	Poor	Poor
Technology	Latest IGBT & DSPiC based	Thyristor & IGBT based old technology	IGBT based	Outdated, can damage modern equipments

To further cope with application requirements, TEZ range offers a set of options to meet on-site voltage conditions. Wider input voltage range, asymmetrical input voltage range or specific voltages are some of the adaptations TEZ range can offer.

**TEZ** Static Voltage Stabilizers have ultrafast correction speed of over 20,000 volts/sec. So it will virtually eliminates common sags and surges to the connected equipments and loads.

## Specification for TEZ Static Voltage Stabilizers

Product	Single Phase	Three Phase
Discrete IGBT based	1 – 10 kVA	4 – 30 kVA
IGBT Module based	5 – 70 kVA	15 – 1200 kVA
Control type	DSP based IGBT PWM switching	
<b>Input voltage range for 220V output:</b>		
Normal	180 – 260V	312 – 450V
Wide	150 – 290V	260 – 500V
Extended	90 – 300V	155 – 520V
<b>Input voltage range for 110V Output:</b>		
Normal	90 – 130V	155 – 255V
Wide	75 – 145V	130 – 250V
Extended	45 – 175V	78 – 300V
Output Voltage	220V +/- 1% settable 110V +/- 1% settable	380V +/- 1% settable 190V +/- 1% settable
Regulation	+/- 1%	
Efficiency	>97%	
Input frequency	45Hz – 65Hz	
Wave form	Same as input	
Effect of power factor	nil	
Display	LCD to display for: <ol style="list-style-type: none"> <li>1. Input voltage</li> <li>2. Output voltage</li> <li>3. Load VA</li> <li>4. Line frequency</li> <li>5. Overload</li> <li>6. High voltage</li> <li>7. Low voltage</li> <li>8. Cut off voltage</li> <li>9. Bypass mode</li> <li>10. Set up mode</li> </ol>	
Rate of correction	20,000 Volt/Sec	
Operating Temperature	0 – 50 Degree Celsius	
Duty cycle	Continuous	
Cooling	Air cooled	
Protection	<ol style="list-style-type: none"> <li>1. Overload</li> <li>2. Short circuit</li> <li>3. High voltage</li> <li>4. Low voltage</li> </ol>	
Trip & Restart	Auto	
Transformer	Differential Transformer	

# TEZ

1-30 KVA (1-PH)  
4-1200 KVA (3-PH)  
STATIC VOLTAGE STABILIZERS

 Excellence in the Service  
**TRIVENI ENTERPRISES**®



**TEZ Voltage Stabilizerz**



**Universal Batteries**



**TriZen Inverter & UPS**

## Contact Us:

B/42, Lane No.56, House No. 42/713,  
Kokan Vasat, Behind Dominos pizza,  
Chickenghar, Kalyan(w), Thane  
421301

+91 9820502189  
(0251) 2304407