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



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

+91 9820502189

(0251) 2304407

- 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



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Key Features:

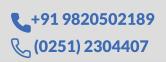
- Continuous operation at full load at 45 °C ambient to meet industrial-level reliability requirements
- Compatible with any type of load, linear or non linear, balanced or 100% unbalanced
- Maintained output voltage stability over the full load variation, from 0 to 100%
- Negligible output voltage distorsion 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	Excellent @	Average	Poor	Poor
fluctuation control	20,000 Volt/sec			
Technology	Latest IGBT &	Thyristor & IGBT	IGBT based	Outdated, can
	DSPiC based	based old		damage modern
		technology		equipments

To further cope with application requirements, TEZ range offers a set of options to meet on-site voltage conditions. Wider input voltage range, asymetrical 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 Volatge 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			
Input voltage range for 220V				
output:				
Normal	180 – 260V	312 – 450V		
Wide	150 – 290V	260 – 500V		
Extended	90 – 300V	155 – 520V		
Input voltage range for 110V				
Output:				
Normal	90 – 130V	155 – 255V		
Wide	75 – 145V	130 – 250V		
Extented	45 – 175V	78 – 300V		
Output Voltage	220V +/- 1% settable	380V +/- 1% settable		
	110V +/- 1% settable	190V +/- 1% settabel		
Regulation	+/- 1%			
Efficiency	>97%			
Input frequency	45Hz – 65Hz			
Wave form	Same as input			
Effect of power factor	nil			
Display	LCD to display for:			
	1. Input voltage			
	2. Output voltage			
	3. Load VA			
	4. Line frequency			
	5. Overload			
	6. High voltage			
	7. Low voltage			
	8. Cut off voltage			
	9. Bypass mode			
	10. Set up mode			
Rate of correction	20,000 Volt/Sec			
Operating Temperature	0 – 50 Degree Celsius			
Duty cycle	Continuous			
Cooling	Air cooled			
Protection 1. Overload		Dverload		
2. Short circuit				
	3. High voltage			
	4. Lo	w voltage		
Trip & Restart	Auto			
Transformer	Differential Transformer			









Contact Us:

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

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