

PRODUCT SPECIFICATIONS

WHAT IS STATIC VOLTAGE STABILIZER?

TSVR Static Voltage Stabilizer, are the devices of voltage control, protection and management which are microprocessor controlled, and which have high speed semiconductor technology. They are adjusted to the right voltage value required by industrial devices that are fast growing and that are becoming more sensitive; and they are designed to meet their continuous, settled and secure energy needs.

WHAT ARE THE APPLICATION FIELDS?

TSVR Static Voltage Stabilizer, which can be produced in a very wide input voltage interval for places where grid voltages drop or rise excessively, evaluates grid voltage decreases and increases in 0.020 seconds when the main grid voltage drops -60% or rise +40% and corrects with 500V/sec. Speed. By this means, your high-cost industrial devices are protected against dangerous voltage changes and also it enables your systems to work with high efficiency and without interruption.

HOW DO WE DESIGN?

TSVR Static Voltage Stabilizer is designed with its compact, aesthetic and modular structure, in such a way that it can be easily connected with electric systems everywhere in the world. "BUS-BAR PANEL INPUT-OUTPUT MODULE" which is required for direct connection can be added to BUS BAR systems optionally on request. Information such as Input Voltage, Output Voltage, and Load Amount etc. can be viewed; breakdown and warning information can be followed on LCD DISPLAY which is standard in TSVR SVS. One may reach devices over on the web, view all information on LCD DISPLAY and change setting values of the device with "REMOTE VIEWING AND MANAGEMENT".

HOW DO WE PROTECT YOUR MACHINES?

TSVR Static Voltage Stabilizer has High Voltage, Low Voltage, Over-temperature, Overload, Short Circuit and Phase Break protections for its own operating safety and also for all electronic devices in your business to work safely. There is a "Manual By-pass" unit which enables the loads to be transferred directly to network voltage for providing usage flexibility and working safety. It is equipped with thermomagnetic fuses in its input and output terminals.

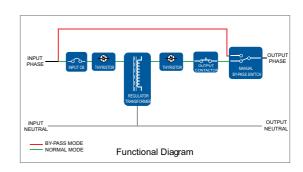
STRUCTURAL SPECIFICATIONS

- 2kVA 3200kVA with single phase and three phase outputs
- All industrial voltage value
 (208 380 400 415 480 600V)
- Wide input voltage range -65% / +45%
- Maintenance-free new technology with Microprocessor controller
- High speed regulation (Up to 500V/sec.)
- High Efficiency (97%)
- Self-test facility
- A circuit breaker is used with an appropriate value according to the nominal input voltage
- CPU controlled thyristor units for power management
- Protection against over load, over temperature, high voltage, low voltage etc.
- Flexible design and software property that can easily orient itself to different grid and voltage conditions
- On / Off and manual by-pass switch for working through grid, in cases where malfunction happens or when maintenance needs
- Real static-modular design with THYRISTOR technology used in power units and SMPS technology in feeding units
- "Remote Management System" and software support by which the user can remotely view manage all of these information
- Production according to ISO 9001:2008 Quality Management System
- New technological design that is suitable for industrial environments like very dusty conditions, humidity and vibration
- Maintenance free design
- Safe usage for all electrical devices
- Minimal size, long life
- User friendly, easy and comprehensive LCD Display and mimic diagram
- Compact structure with high quality material and minimum malfunction hazard
- Surge Arrester against sudden voltage increases and streaks lightning
- Spare part providing guarantee for 10 years



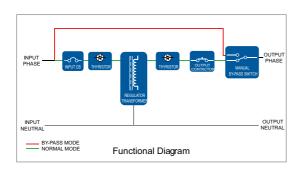






T	ECHNICAL	SPECIFICA	TIONS OF	TSVR MOD	EL SINGLE	PHASE ST	ATIC VOLTA	AGE STABII	_IZER			
MODEL	TSVR 1102	TSVR 1103	TSVR 1105	TSVR 1108	TSVR 1110	TSVR 1115	TSVR 1120	TSVR 1130	TSVR 1140	TSVR 1150		
POWER (kVA)	2	3	5	7,5	10	15	20	30	40	50		
Power Range	0,8											
INPUT												
Voltage				220	V AC Single	e Phase + Ne	eutral					
Voltage Tolerance	-20%, +15%											
Frequency	50Hz ± 5%											
Input Connection		Copper busbar terminal										
OUTPUT												
Voltage				220	V AC Single	e Phase + Ne	eutral					
Voltage Tolerance					±	3%						
Frequency					50 H	z ± 5%						
Current	8A	11A	19A	28A	37A	55A	73A	110A	145A	182A		
Overload Capability		101%-1	25% 3 min.	, 126%-150%	% 10 sec.,	151% load	0,2 sec., a	fter then out	out shut-off			
Response Time					20 n	n/sec						
Correction Speed					500	V/sec						
Efficiency					> 97%	typical						
Output Connection					Copper bus	bar terminal						
	Copper busbar terminal Input Voltage Value, Output Voltage Value, Output LoadPercent, Output Frequency, Stabilizer Condition and Failure Info, Warnings (Overload, over temperature, input failure, output failure, etc)											
LCD Display	Sta									etc)		
LCD Display Communication		bilizer Condi	tion and Fail	ure Info, Warı	nings (Overl	oad, over ten	nperature, inp	put failure, ou				
		bilizer Condi	tion and Fail	ure Info, Warı	nings (Overl	oad, over ten	nperature, inp	put failure, ou	itput failure, e			
Communication		bilizer Condi	tion and Fail rt and "Remo	ure Info, Warı	nings (Overlo	oad, over ten Via Network)	nperature, inp , the ability of	put failure, ou monitoring a	itput failure, e			
Communication PROTECTION		bilizer Condi	tion and Fail rt and "Remo	ure Info, Warr	nings (Overlo	oad, over ten Via Network) iically under	nperature, inp the ability of over voltage	put failure, ou monitoring a	itput failure, e			
Communication PROTECTION Input Voltage Protection		bilizer Condi	tion and Fail rt and "Remo	ure Info, Warr ote Manageme Stabilizer shu Stabilizer shu	nings (Overlo	oad, over ten Via Network) iically under	nperature, inp the ability of over voltage	put failure, ou monitoring a	utput failure, e			
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Communication PROTECTION Input Voltage Protection Output Voltage Protection Input Current Protection	Though a so	bilizer Condi	tion and Fail rt and "Remo	ure Info, Warr ote Manageme Stabilizer shu Stabilizer shu Mo	nings (Overlownings) It off electron It off electron CB CB	oad, over ten Via Network) ically under ically under	nperature, inp the ability of vover voltage over voltage	put failure, ou monitoring and e	utput failure, e	ent (optional)		
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Communication PROTECTION Input Voltage Protection Output Voltage Protection Input Current Protection Output Current Protection Output Overload Protection	Though a so	bilizer Condi	tion and Failurt and "Remo	ore Info, Warr ote Manageme Stabilizer shu Stabilizer shu Mo 5% 3 min., 1	nings (Overlowent System" (ut off electron CB CB 126%-150% er shut off fo	oad, over ten Via Network) ically under ically under 10 sec., %1	the ability of vover voltage over voltage for the state of the state o	put failure, our monitoring and put failure.	ntput failure, e	ent (optional)		
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Communication PROTECTION Input Voltage Protection Output Voltage Protection Input Current Protection Output Current Protection Output Overload Protection Over Temperature Protection Manual By-Pass Switch	Though a so	bilizer Condi	tion and Failurt and "Remo	ote Info, Warn ote Manageme Stabilizer shu Mo Mo Simple 3 min., 1 Stabilizer	nings (Overlownt System" (at off electron to off electron CB CB 126%-150% er shut off fo ual By-Pass	oad, over ten Via Network) ically under ically under 10 sec., %1 r over - temp	the ability of voer voltage over voltage for the state of	put failure, our monitoring and elections are electrons and electrons and electrons and electrons are electrons and electrons and electrons are electrons are electrons are electrons and electrons are electrons are electrons and electrons are electrons ar	ntput failure, e	ccb		
Communication PROTECTION Input Voltage Protection Output Voltage Protection Input Current Protection Output Current Protection Output Overload Protection Over Temperature Protection Manual By-Pass Switch Surge Arrester	Though a so	bilizer Condi	tion and Failurt and "Remo	ote Info, Warn ote Manageme Stabilizer shu Mo Mo Simple 3 min., 1 Stabilizer	nings (Overlowent System" (at off electron CB CB 126%-150% er shut off fo ual By-Pass s er unit for lig	oad, over ten Via Network) ically under ically under 10 sec., %1 r over - temp	the ability of voer voltage over voltage for the state of	put failure, our monitoring and elections are electrons and electrons and electrons and electrons are electrons and electrons and electrons are electrons are electrons are electrons and electrons are electrons are electrons and electrons are electrons ar	ntput failure, e	ccb		
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Communication PROTECTION Input Voltage Protection Output Voltage Protection Input Current Protection Output Current Protection Output Overload Protection Over Temperature Protection Manual By-Pass Switch Surge Arrester ENVIRONMENTAL CONDITORIST Temperature Altitude Humidity Acoustic Noise CABIN SPECIFICATIONS Type	Though a so	bilizer Condi	tion and Failurt and "Remo	ote Info, Warr ote Manageme Stabilizer shu Mo Mo Simple 3 min., 1 Stabilizer	nings (Overlowent System" (at off electron of the electron o	oad, over ten Via Network) ically under ically under 10 sec., %1 r over - temp switch for fail htning and h ~ +40 °C 100 m e condensed	the ability of voer voltage over voltage for the state of	put failure, our monitoring and elections are electrons and electrons and electrons and electrons are electrons ar	ntput failure, e	CCB CCB nut-off		
Communication PROTECTION Input Voltage Protection Output Voltage Protection Input Current Protection Output Current Protection Output Overload Protection Over Temperature Protection Manual By-Pass Switch Surge Arrester ENVIRONMENTAL CONDITOPERATION Operating Temperature Altitude Humidity Acoustic Noise CABIN SPECIFICATIONS Type Protection Class	Though a so	bilizer Condi	tion and Failurt and "Remo	ote Info, Warr ote Manageme Stabilizer shu Mo Mo Simple 3 min., 1 Stabilizer	nings (Overlowent System" (at off electron of the electron o	oad, over ten Via Network) ically under ically under via sec., %1 r over - temp switch for fail htning and h ~ +40 °C 000 m e condensed	the ability of voer voltage over voltage for the state of	put failure, our monitoring and elections are electrons and electrons and electrons and electrons are electrons ar	ntput failure, e	CCB CCB nut-off		
Communication PROTECTION Input Voltage Protection Output Voltage Protection Input Current Protection Output Current Protection Output Overload Protection Over Temperature Protection Manual By-Pass Switch Surge Arrester ENVIRONMENTAL CONDIT Operating Temperature Altitude Humidity Acoustic Noise CABIN SPECIFICATIONS Type Protection Class Color	Though a so	bilizer Condi	tion and Failurt and "Remo	ote Info, Warr ote Manageme Stabilizer shu Mo Mo Simple 3 min., 1 Stabilizer	nings (Overlowent System" (at off electron of the content of the	oad, over ten Via Network) ically under ically under 10 sec., %1 r over - temp switch for fail htning and h ~ +40 °C 000 m e condensed	the ability of voer voltage over voltage for the state of	put failure, our monitoring and elections are electrons and electrons and electrons and electrons are electrons ar	ntput failure, e	CCB CCB nut-off		
Communication PROTECTION Input Voltage Protection Output Voltage Protection Input Current Protection Output Current Protection Output Overload Protection Over Temperature Protection Manual By-Pass Switch Surge Arrester ENVIRONMENTAL CONDITOPERATIONS Type Protection Class Color Base	Though a so	bilizer Condi	tion and Failurt and "Remo	ote Info, Warn ote Manageme Stabilizer shu Mo Mo Simple 3 min., 1 Stabilizer	nings (Overlowent System" (at off electron of the electron o	oad, over ten Via Network) ically under ically under 10 sec., %1 r over - temp switch for fail htning and h ~ +40 °C 000 m e condensed loor 21 7035 / Plinth	the ability of voer voltage over voltage for the state of	put failure, our monitoring and moni	ntput failure, e	CCB CCB nut-off		



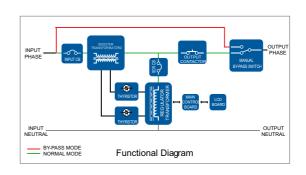




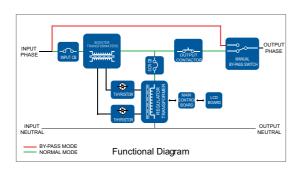
T	ECHNICAL S	SPECIFICATI	ONS OF TS\	/R MODEL T	HREE PHAS	E STATIC VC	DLTAGE STAI	BILIZER					
MODEL	TSVR 3310	TSVR 3315	TSVR 3323	TSVR 3330	TSVR 3345	TSVR 3360	TSVR 3375	TSVR 33100	TSVR 33120				
POWER (kVA)	10	15	23	30	45	60	75	100	120				
Power Range	0,8												
INPUT													
Voltage				380 V A0	C Three Phase	+ Neutral							
Voltage Tolerance	-20%, +15%												
Frequency		50Hz ± 5%											
Input Connection		Screwed Terminal											
OUTPUT													
Voltage				380 V A0	C Three Phase	+ Neutral							
Voltage Tolerance					± 3%								
Frequency					50 Hz ± 5%								
Current	13 A	19A	28A	37A	55A	73A	91A	122A	145A				
Overload Capability		101%-125	% 3 min., 12	6%-150% 10	sec., 151%	load 0,2 sec.	, after then c	output shut-off					
Response Time					20 m/sec								
Correction Speed					500 V/sec								
Efficiency					> 97% typical								
Output Connection				S	crewed Termin	al							
LCD Display								phase and neutra e, input failure, out					
Communication	Though a sof	tware support a	and "Remote M	lanagement Sy	stem" (Via Net	work), the abilit	ty of monitoring	g and managen	nent (optional)				
PROTECTION													
Input Voltage Protection			Stabi	ilizer shut off e	electronically u	nder / over vo	Itage						
Output Voltage Protection			Stabi	ilizer shut off e	electronically u	nder / over vo	Itage						
Input Current Protection		M	СВ				МССВ						
Output Current Protection		M	СВ				МССВ						
Output Overload Protection	Stabi	lizer shut off,	101%-125%	3 min., 126%-	150% 10 sec	., %151 load	0,2 sec., afte	er then output	shut-off				
Over Temperature Protection				Stabilizer shu	ıt off for over -	temperature							
Manual By-Pass Switch			(ı-0-ıı) positi	on manual By	-Pass swicth f	or failure and	maintenance						
Surge Arrester			Suitable surg	ge arrester uni	t for lightning a	and high volta	ge (optional)						
ENVIRONMENTAL CONDI	TIONS												
Operating Temperature		-10 °C ~ +40 °C											
Altitude					< 3000 m								
Humidity	90% none condensed												
Acoustic Noise	< 50 dB < 55 dB												
CABIN SPECIFICATIONS													
Туре					Indoor								
Protection Class					IP 21								
Color					RAL 7035								
Base					Wheel / Plinth								
Dase		Air forced Fans											
Cooling					Air forced Fans	3							
			33x76x76		Air forced Fans	S	50x70x130		60x80x150				







TECHNICAL SPECIFICATIONS OF TSVR MODEL THREE PHASE STATIC VOLTAGE STABILIZER												
MODEL	TSVR 33150	TSVR 33200	TSVR 33250	TSVR 33300	TSVR 33400							
POWER (kVA)	150	200	250	300	400							
Power Range	0,8											
INPUT												
Voltage		380	V AC Three Phase + Ne	eutral								
Voltage Tolerance	-20%, +15%											
Frequency		50Hz ± 5%										
Input Connection		Screwed Terminal										
OUTPUT												
Voltage		380	V AC Three Phase + Ne	eutral								
Voltage Tolerance			± 3%									
Frequency			50 Hz ± 5%									
Current	182A	245A	300A	365A	485A							
Overload Capability	101%-1	25% 3 min., 126%-150%	% 10 sec., 151% load	0,2 sec., after then outp	out shut-off							
Response Time			20 m/sec									
Correction Speed			500 V/sec									
Efficiency			> 97% typical									
Output Connection			Screwed Terminal									
LCD Display		e Phases, between phase and Frequency, Stabilizer Conditio										
Communication	Though a software suppo	rt and "Remote Manageme	ent System" (Via Network)	the ability of monitoring a	nd management (option							
PROTECTION												
Input Voltage Protection		Stabilizer shu	t off electronically under	over voltage								
Output Voltage Protection		Stabilizer shu	t off electronically under	over voltage								
Input Current Protection			MCCB									
Output Current Protection			MCCB									
Output Overload Protection	Stabilizer shut of	f, 101%-125% 3 min., 1	26%-150% 10 sec., %1	51 load 0,2 sec., after t	hen output shut-off							
Over Temperature Protection		Stabilize	er shut off for over - temp	erature								
Manual By-Pass Switch		(ı-0-ıı) position manu	al By-Pass switch for fail	ure and maintenance								
Surge Arrester		Suitable surge arreste	er unit for lightning and hi	gh voltage (optional)								
ENVIRONMENTAL CONDI	TIONS											
Operating Temperature	-10 °C ~ +40 °C											
Altitude	< 3000 m											
Humidity	90% none condensed											
Acoustic Noise	< 60dB											
CABIN SPECIFICATIONS												
CABIN SPECIFICATIONS Type			Indoor									
			Indoor IP 21									
Туре												
Type Protection Class			IP 21									
Type Protection Class Color			IP 21 RAL 7035									
Type Protection Class Color Base	80x98	0x140	IP 21 RAL 7035 Wheel / Plinth	90x10	00x160							





1	ECHNICA	L SPECIFI	CATIONS	OF TSVR I	MODEL TH	REE PHAS	SE STATIC	VOLTAGE	STABILIZ	ER		
MODEL	TSVR 33500	TSVR 33600	TSVR 33700	TSVR 33800	TSVR 33900	TSVR 331000	TSVR 331250	TSVR 331600	TSVR 332000	TSVR 332500	TSVR 333200	
POWER (kVA)	500	600	700	800	900	1000	1250	1600	2000	2500	3200	
Power Range						0,8						
INPUT												
Voltage	380 V AC Three Phase + Neutral											
Voltage Tolerance		-25%, +15%										
Frequency		-25%, +15% 50Hz ± 5%										
Input Connection		Screwed Terminal										
OUTPUT												
Voltage					380 V AC	Three Phas	e + Neutral					
Voltage Tolerance					000 7710	± 3%	o · modulai					
Frequency						50 Hz ± 5%						
Current	610A	730A	850A	970A	1100A	1220A	1500A	1950A	2540A	3050A	3900A	
Overload Capability	0.07.	I			150% 10 s							
Response Time		10170	12070 011	, 12070	10070 100	20 m/sec	1044 0,2	., 41101	inon output	ondt on		
Correction Speed						500 V/sec						
Efficiency						· 97% typica	al					
Output Connection						ewed Termi						
Output Connection	Input Val	tage Value (Th	roo Dhacac I	notwoon nhac				no Phaese ha	utwoon nhaco	and noutral)	Output Load	
LCD Display		ch phase, Out										
Communication	Though a s	oftware sup	port and "Re	emote Mana	gement Syst	em" (Via Ne	twork), the	ability of mo	nitoring and	manageme	nt (optional)	
PROTECTION	,											
Input Voltage Protection				Stabilize	r shut off ele	ectronically (under / ove	r voltage				
Output Voltage Protection				Stabilize	r shut off ele	ectronically (under / ove	r voltage				
Input Current Protection					МС	CB with mo	otor					
Output Current Protection					Motorize	ed MCCB (d	optional)					
Output Overload Protection	Sta	abilizer shut	off, 101%-	125% 3 mi	n., 126%-1	50% 10 sec	c., %151 l	oad 0,2 sec	c., after the	n output sh	nut-off	
Over Temperature Protection				Sta	abilizer shut	off for over	- temperatu	ire				
Manual By-Pass Switch			(1-0-1) position r	manual By-F	ass switch	for failure a	ind mainten	ance			
Surge Arrester			Suita	ble surge a	rrester unit 1	or lightning	and high v	oltage (optio	nal)			
ENVIRONMENTAL CONDI	TIONS											
Operating Temperature					-1	0 °C ~ +40	°C					
Altitude						< 3000 m						
Humidity	90% none condensed											
Acoustic Noise	< 60 dB < 65 dB											
CABIN SPECIFICATIONS												
Туре						Indoor						
Protection Class						IP 21						
Color						RAL 7035						
Base					V	/heel / Plintl	h					
Cooling					Ai	r forced Far	ıs					
Dimensions (WxDxH) cm		90x120x170 240x80x170 250x100x170 290x125x170300x125x220830x125x22										
Difficusions (WXDXH) Citi		COKILOKII	•		2400000111	,	LOOK!	00/11/0	200X120X17C	0000 1207220	7000X 120X220	