

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

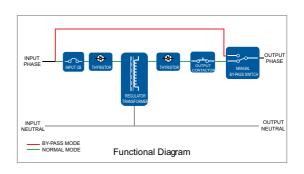
- 2kVA 3200kVA with single phase and three phase outputs
- All industrial voltage value (208 - 380 - 400 - 415 - 480 - 600V)
- Wide input voltage range -65% / +45%
- Maintenance-free new technology with Microprocessor controller
- High speed regulation (Up to 500V/sec.)
- High Efficiency (97%)
- Self-test 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





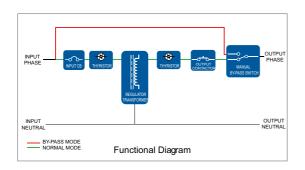






Т	ECHNICAL	SPECIFICA	TIONS OF	TSVR MOD	EL SINGLE	PHASE ST	ATIC VOLTA	AGE STABIL	LIZER	
MODEL	TSVR 1102	TSVR 1103	TSVR 1105	TSVR 1108	TSVR 1110	TSVR 1115	TSVR 1120	TSVR 1130	TSVR 1140	TSVR 1150
POWER (kVA)	2	3	5	7,5	10	15	20	30	40	50
Power Range	0,8									
INPUT										
Voltage				220	V AC Single	Phase + Ne	eutral			
Voltage Tolerance	-20%, +15%									
Frequency	50Hz ± 5%									
Input Connection	Copper busbar terminal									
OUTPUT										
Voltage				220	V AC Single	Phase + Ne	eutral			
Voltage Tolerance	220 V AC Single Phase + Neutral ± 3%									
Frequency					50 Hz	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	101%-125% 3 min., 126%-150% 10 sec., 151% load 0,2 sec., after then output shut-off 20 m/sec									
Correction Speed	500 V/sec									
Efficiency	> 97% typical									
Output Connection					Copper busi					
LCD Display	Input Voltage Value, Output Voltage Value, Output Loa@ercent, Output Frequency, Stabilizer Condition and Failure Info, Warnings (Overload, over temperature, input failure, output failure, etc)									
Communication				· · · · · · · · · · · · · · · · · · ·	ent System" (•		•	
PROTECTION	Though a sc	ntware suppo	it and item	ote ivianagem	ent System (via ivetwork)	, trie ability of	morntoning at	nu managem	ent (optional
Input Voltage Protection				Stahilizar shu	ıt off electron	ically under	/ over voltage	<u> </u>		
Output Voltage Protection										
Input Current Protection	Stabilizer shut off electronically under / over voltage MCB MCCB									
Output Current Protection	MCB MCCB									
Output Overload Protection	Stabilizer shut off, 101%-125% 3 min., 126%-150% 10 sec., %151 load 0,2 sec., after then output shut-off									
Over Temperature Protection	Stabilizer shut off, 101%-125% 3 min., 126%-150% 10 sec., %151 load 0,2 sec., after then output shut-off Stabilizer shut off for over - temperature									
Manual By-Pass Switch	(I-0-II) position manual By-Pass switch for failure and maintenance									
Surge Arrester	Suitable surge arrester unit for lightning and high voltage (optional)									
ENVIRONMENTAL CONDI	TIONS		Sandolo	54. go arrost	a. c. a. a. a.	g unu II	a ronago (c			
Operating Temperature	HONO				-10 °C :	~ +40 °C				
Altitude	< 3000 m									
Humidity	90% none condensed									
Acoustic Noise								< 50 dB		
CABIN SPECIFICATIONS					.0 45					30 45
Туре					Ind	oor				
Protection Class						21				
Color						7035				
Base					Wheel					
Cooling						ed Fans				
Dimensions (WxDxH) cm								33x76x76		
Weight (kg)	23	25	30	35	40	45	85	100	140	160



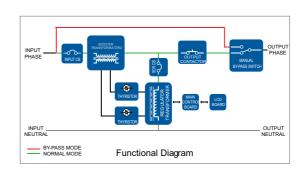




Т	ECHNICAL S	SPECIFICATI	ONS OF TS\	/R MODEL T	HREE PHAS	E STATIC VO	DLTAGE STA	BILIZER	
MODEL	TSVR 3310	TSVR 3315	TSVR 3323	TSVR 3330	TSVR 3345	TSVR 3360	TSVR 3375	TSVR 33100	TSVR 33120
POWER (kVA)	10	15	23	30	45	60	75	100	120
Power Range	0,8								
INPUT									
Voltage				380 V AC	Three Phase	+ Neutral			
Voltage Tolerance	-20%, +15%								
Frequency	50Hz ± 5%								
Input Connection	Screwed Terminal								
OUTPUT									
Voltage	380 V AC 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 o	output shut-off	
Response Time		101%-125% 3 min., 126%-150% 10 sec., 151% load 0,2 sec., after then output shut-off 20 m/sec							
Correction Speed		500 V/sec							
Efficiency		> 97% typical							
Output Connection		Screwed Terminal							
LCD Display	Input Voltage Value (Three Phases, between phase and neutral), Output Voltage Value (Three Phases, between phase and neutral), Output Load Percent /each phase, Output Frequency, Stabilizer Condition and Failure Info, Warnings (Overload, over temperature, input failure, output failure, etc)								
Communication	Though a soft	ware support a	and "Remote M	lanagement Sy	stem" (Via Net	work), the abili	ty of monitoring	g and manager	nent (optional
PROTECTION									
Input Voltage Protection			Stabi	ilizer shut off e	lectronically u	nder / over vo	Itage		
Output Voltage Protection		Stabilizer shut off electronically under / over voltage							
	MCB MCCB						Itage		
Input Current Protection		M		ilizer shut on e	lectronically u	nder / over vo			
Input Current Protection Output Current Protection				ilizer shut on e	lectronically u	nder / over vo			
•	Stabil	M	CB CB	3 min., 126%-			MCCB MCCB	er then output	shut-off
Output Current Protection	Stabil	M	CB CB	3 min., 126%-		., %151 load	MCCB MCCB	er then output	shut-off
Output Current Protection Output Overload Protection	Stabil	M	CB CB 101%-125%	3 min., 126%-	150% 10 sec	., %151 load temperature	MCCB MCCB 0,2 sec., aft	er then output	shut-off
Output Current Protection Output Overload Protection Over Temperature Protection	Stabil	M	CB CB 101%-125% 3 (I-0-II) positi	3 min., 126%- Stabilizer shu	150% 10 sec tt off for over -	., %151 load temperature or failure and	MCCB MCCB 0,2 sec., after	er then output	shut-off
Output Current Protection Output Overload Protection Over Temperature Protection Manual By-Pass Switch		M	CB CB 101%-125% 3 (I-0-II) positi	3 min., 126%- Stabilizer shu on manual By	150% 10 sec tt off for over -	., %151 load temperature or failure and	MCCB MCCB 0,2 sec., after	er then output	shut-off
Output Current Protection Output Overload Protection Over Temperature Protection Manual By-Pass Switch Surge Arrester		M	CB CB 101%-125% 3 (I-0-II) positi	3 min., 126%- Stabilizer shu on manual By ge arrester uni	150% 10 sec tt off for over -	., %151 load temperature or failure and and high volta	MCCB MCCB 0,2 sec., after	er then output	shut-off
Output Current Protection Output Overload Protection Over Temperature Protection Manual By-Pass Switch Surge Arrester ENVIRONMENTAL CONDITION		M	CB CB 101%-125% 3 (I-0-II) positi	3 min., 126%- Stabilizer shu on manual By ge arrester uni	150% 10 sec It off for over - Pass swicth for t for lightning a	., %151 load temperature or failure and and high volta	MCCB MCCB 0,2 sec., after	er then output	shut-off
Output Current Protection Output Overload Protection Over Temperature Protection Manual By-Pass Switch Surge Arrester ENVIRONMENTAL CONDI		M	CB CB 101%-125% 3 (I-0-II) positi	3 min., 126%- Stabilizer shu ion manual By ge arrester uni	150% 10 sec at off for over - Pass swicth fit for lightning a	., %151 load temperature or failure and and high voltag	MCCB MCCB 0,2 sec., after	er then output	shut-off
Output Current Protection Output Overload Protection Over Temperature Protection Manual By-Pass Switch Surge Arrester ENVIRONMENTAL CONDITION Operating Temperature Altitude		M	CB CB 101%-125% 3 (I-0-II) positi	3 min., 126%- Stabilizer shu ion manual By ge arrester uni	150% 10 sec at off for over - -Pass swicth for t for lightning at -10 °C ~ +40 ° < 3000 m	., %151 load temperature or failure and and high voltag	MCCB MCCB 0,2 sec., after		shut-off
Output Current Protection Output Overload Protection Over Temperature Protection Manual By-Pass Switch Surge Arrester ENVIRONMENTAL CONDITOPERATURE Altitude Humidity		M	CB CB 101%-125% 3 (I-0-II) positi	3 min., 126%- Stabilizer shu on manual By ge arrester uni	150% 10 sec at off for over - -Pass swicth for t for lightning at -10 °C ~ +40 ° < 3000 m	., %151 load temperature or failure and and high voltag	MCCB MCCB 0,2 sec., after		
Output Current Protection Output Overload Protection Over Temperature Protection Manual By-Pass Switch Surge Arrester ENVIRONMENTAL CONDITO Operating Temperature Altitude Humidity Acoustic Noise		M	CB CB 101%-125% 3 (I-0-II) positi	3 min., 126%- Stabilizer shu on manual By ge arrester uni	150% 10 sec at off for over - -Pass swicth for t for lightning at -10 °C ~ +40 ° < 3000 m	., %151 load temperature or failure and and high voltag	MCCB MCCB 0,2 sec., after		
Output Current Protection Output Overload Protection Over Temperature Protection Manual By-Pass Switch Surge Arrester ENVIRONMENTAL CONDITOPERATING Temperature Altitude Humidity Acoustic Noise CABIN SPECIFICATIONS		M	CB CB 101%-125% 3 (I-0-II) positi	3 min., 126%- Stabilizer shu on manual By ge arrester uni	150% 10 sec at off for over - -Pass swicth for t for lightning at 10 °C ~ +40 ° < 3000 m	., %151 load temperature or failure and and high voltag	MCCB MCCB 0,2 sec., after		
Output Current Protection Output Overload Protection Over Temperature Protection Manual By-Pass Switch Surge Arrester ENVIRONMENTAL CONDITOPERATURE Altitude Humidity Acoustic Noise CABIN SPECIFICATIONS Type		M	CB CB 101%-125% 3 (I-0-II) positi	3 min., 126%- Stabilizer shu on manual By ge arrester uni	150% 10 sec at off for over - -Pass swicth for t for lightning at -10 °C ~ +40 ° < 3000 m 6 none conde	., %151 load temperature or failure and and high voltag	MCCB MCCB 0,2 sec., after		
Output Current Protection Output Overload Protection Over Temperature Protection Manual By-Pass Switch Surge Arrester ENVIRONMENTAL CONDI Operating Temperature Altitude Humidity Acoustic Noise CABIN SPECIFICATIONS Type Protection Class		M	CB CB 101%-125% 3 (I-0-II) positi	3 min., 126%- Stabilizer shu ion manual By ge arrester unit	150% 10 sec at off for over - Pass swicth fit t for lightning at 10 °C ~ +40 ° < 3000 m 6 none conde	., %151 load temperature or failure and and high voltage C	MCCB MCCB 0,2 sec., after		
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 Color		M	CB CB 101%-125% 3 (I-0-II) positi	3 min., 126%- Stabilizer shu ion manual By- ge arrester unit	150% 10 sec at off for over - -Pass swicth for t for lightning at 10 °C ~ +40 ° < 3000 m 6 none conder Indoor IP 21 RAL 7035	., %151 load temperature or failure and and high voltage C	MCCB MCCB 0,2 sec., after		
Output Current Protection Output Overload Protection Over Temperature Protection Manual By-Pass Switch Surge Arrester ENVIRONMENTAL CONDI Operating Temperature Altitude Humidity Acoustic Noise CABIN SPECIFICATIONS Type Protection Class Color Base		M	CB CB 101%-125% 3 (I-0-II) positi	3 min., 126%- Stabilizer shu ion manual By- ge arrester unit	150% 10 sec at off for over - -Pass swicth for t for lightning at -10 °C ~ +40 ° < 3000 m 6 none conder Indoor IP 21 RAL 7035	., %151 load temperature or failure and and high voltage C	MCCB MCCB 0,2 sec., after		

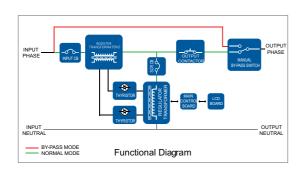






Т	ECHNICAL SPECIFICA	ATIONS OF TSVR MOD	DEL THREE PHASE STA	ATIC VOLTAGE STABIL	IZER				
MODEL	TSVR 33150	TSVR 33200	TSVR 33250	TSVR 33300	TSVR 33400				
POWER (kVA)	150	200	250	300	400				
Power Range			0,8						
INPUT									
Voltage		380	0 V AC Three Phase + Ne	utral					
Voltage Tolerance	-20%, +15%								
Frequency	50Hz ± 5%								
Input Connection	Screwed Terminal								
OUTPUT									
Voltage		380	V AC Three Phase + Ne	utral					
Voltage Tolerance	± 3%								
Frequency	50 Hz ± 5%								
Current	182A	245A	300A	365A	485A				
Overload Capability	101%-1	25% 3 min., 126%-1509	% 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	Input Voltage Value (Three Phases, between phase and neutral), Output Voltage Value (Three Phases, between phase and neutral), Output Loac Percent /each phase, Output Frequency, Stabilizer Condition and Failure Info, Warnings (Overload, over temperature, input failure, output failure, etc.)								
Communication	Though a software suppo	rt and "Remote Manageme	ent System" (Via Network),	the ability of monitoring ar	nd management (optiona				
PROTECTION									
Input Voltage Protection		Stabilizer shu	t off electronically under	over voltage					
Output Voltage Protection	Stabilizer shut off electronically under / over voltage								
Input Current Protection	MCCB								
Output Current Protection	MCCB								
Output Overload Protection	Stabilizer shut off, 101%-125% 3 min., 126%-150% 10 sec., %151 load 0,2 sec., after then output shut-off								
Over Temperature Protection	Stabilizer shut off for over - temperature								
Manual By-Pass Switch	(i-0-ii) position manual By-Pass switch for failure and maintenance								
Surge Arrester		Suitable surge arrest	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									
Туре			Indoor						
Protection Class			IP 21						
Color			RAL 7035						
Base			Wheel / Plinth						
Cooling			Air forced Fans						
Dimensions (WxDxH) cm	80x9	0x140	80x90x160	90x10	00x160				
	500	600	700	800	1000				







Percent /each phase, Output Frequency, Stabilizer Condition and Failure Info, Warnings (Overload, over temperature, input failure, output fa	N/D 22220										
POWER (kVA) 500 600 700 800 900 1000 1250 1600 2000 2500 Power Range	OVK JJJZU										
Notage	3200										
Voltage											
Voltage 380 V AC Three Phase + Neutral Voltage Tolerance -25%, +15% Frequency Input Connection OUTPUT Voltage 380 V AC Three Phase + Neutral Voltage Tolerance ± 3% Frequency 50 Hz ± 5% Current 610A 730A 850A 970A 1100A 120A 1500A 1950A 2540A 3050A Overload Capability 101%-125% 3 min., 126%-150% 10 sec., 151% load 0,2 sec., after then output shut-off Response Time 20 m/sec Correction Speed 500 V/sec Efficiency > 97% typical Output Connection Screwed Terminal LCD Display Input Voltage Value (Three Phases, between phase and neutral), Output Voltage Value (Three Phases, between phase and neutral), Output Voltage Value (Three Phases, between phase and neutral) over temperature, input failure, output fa Communication Though a software support and "Remote Management System" (Via Network), the ability of monitoring and management (PROTECTION)											
Voltage Tolerance -25%, +15% Frequency 50Hz ± 5% Input Connection Screwed Terminal OUTPUT Voltage 380 V AC Three Phase + Neutral Voltage Tolerance ± 3% Frequency 50 Hz ± 5% Current 610A 730A 850A 970A 1100A 1220A 1500A 1950A 2540A 3050A Overload Capability 101%-125% 3 min., 126%-150% 10 sec., 151% load 0,2 sec., after then output shut-off Response Time 20 m/sec Correction Speed 500 V/sec Efficiency > 97% typical Output Connection Screwed Terminal LCD Display Input Voltage Value (Three Phases, between phase and neutral), Output Voltage Value (Three Phases, between phase and neutral), Output Voltage Value (Three Phases, between phase and neutral), Output Voltage Value (Three Phases, Detween phase and neutral), Output Voltage Value (Three Phases, Detween phase and neutral), Output Voltage Value (Three Phases, Detween phase and neutral), Output Voltage Value (Three Phases, Detween phase and neutral), Output Voltage Value (Three Phases, Detween phase and neutral), Output Voltage Value (Three Phases, Detween phase and neutral), Output Voltage Value (Three Phases, Detween phase and neutral), Output Voltage Value (Three Phases, Detween phase and neutral), Ou											
Input Connection OUTPUT Voltage 380 V AC Three Phase + Neutral Voltage Tolerance ± 3% Frequency 50 Hz ± 5% Current 610A 730A 850A 970A 1100A 1220A 1500A 1950A 2540A 3050A Overload Capability 101%-125% 3 min., 126%-150% 10 sec., 151% load 0,2 sec., after then output shut-off Response Time 20 m/sec Correction Speed 500 V/sec Efficiency > 97% typical Output Connection Input Voltage Value (Three Phases, between phase and neutral), Outpu											
Input Connection Screwed Terminal OUTPUT Voltage 380 V AC Three Phase + Neutral Voltage Tolerance ± 3% Frequency 50 Hz ± 5% Current 610A 730A 850A 970A 1100A 1220A 1500A 1950A 2540A 3050A Overload Capability 101%-125% 3 min., 126%-150% 10 sec., 151% load 0,2 sec., after then output shut-off Response Time 20 m/sec Correction Speed 500 V/sec Efficiency > 97% typical Output Connection Input Voltage Value (Three Phases, between phase and neutral), Output Voltage Value (Three Phases, Detween phase a											
Voltage 380 V AC Three Phase + Neutral Voltage Tolerance ± 3% Frequency 50 Hz ± 5% Current 610A 730A 850A 970A 1100A 1220A 1500A 1950A 2540A 3050A Overload Capability 101%-125% 3 min., 126%-150% 10 sec., 151% load 0,2 sec., after then output shut-off Response Time 20 m/sec Correction Speed 500 V/sec Efficiency > 97% typical Output Connection Screwed Terminal LCD Display Input Voltage Value (Three Phases, between phase and neutral), Output Voltage Value (Three Phases, between phase and neutral), O											
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Voltage Tolerance Frequency 50 Hz ± 5% Current 610A 730A 850A 970A 1100A 1220A 1500A 1950A 2540A 3050A Overload Capability 101%-125% 3 min., 126%-150% 10 sec., 151% load 0,2 sec., after then output shut-off Response Time 20 m/sec Correction Speed 500 V/sec Efficiency > 97% typical Output Connection Screwed Terminal LCD Display Input Voltage Value (Three Phases, between phase and neutral), Output Voltage Value (Three Phases, between phase and neutral), Output Voltage Value (Three Phases, between phase and neutral), Output Voltage Value (Three Phases, Dutput Frequency, Stabilizer Condition and Failure Info, Warnings (Overload, over temperature, input failure, output failure, output failure Info, Warnings (Overload, over temperature, input failure, output failure) PROTECTION											
Current 610A 730A 850A 970A 1100A 1220A 1500A 1950A 2540A 3050A Overload Capability 101%-125% 3 min., 126%-150% 10 sec., 151% load 0,2 sec., after then output shut-off Response Time 20 m/sec Correction Speed 500 V/sec Efficiency > 97% typical Output Connection Screwed Terminal LCD Display Input Voltage Value (Three Phases, between phase and neutral), Output Voltage Value (T											
Current 610A 730A 850A 970A 1100A 1220A 1500A 1950A 2540A 3050A Overload Capability 101%-125% 3 min., 126%-150% 10 sec., 151% load 0,2 sec., after then output shut-off Response Time 20 m/sec Correction Speed 500 V/sec Efficiency > 97% typical Output Connection Screwed Terminal LCD Display Input Voltage Value (Three Phases, between phase and neutral), Output Voltage Value (T											
Overload Capability 101%-125% 3 min., 126%-150% 10 sec., 151% load 0,2 sec., after then output shut-off Response Time 20 m/sec Correction Speed 500 V/sec Efficiency > 97% typical Output Connection Screwed Terminal LCD Display Input Voltage Value (Three Phases, between phase and neutral), Output Voltage Val	3900A										
Response Time 20 m/sec Correction Speed 500 V/sec Efficiency > 97% typical Output Connection Screwed Terminal LCD Display Input Voltage Value (Three Phases, between phase and neutral), Output Voltage Value (Three Phases, between phase and neutra											
Correction Speed 500 V/sec Efficiency > 97% typical Output Connection Screwed Terminal LCD Display Input Voltage Value (Three Phases, between phase and neutral), Output Voltage Value											
Screwed Terminal											
Output Connection Screwed Terminal LCD Display Input Voltage Value (Three Phases, between phase and neutral), Output Voltag											
Input Voltage Value (Three Phases, between phase and neutral), Output Voltage Value (Three Phases, between phase and neutral),											
PROTECTION	Input Voltage Value (Three Phases, between phase and neutral), Output Voltage Value (Three Phases, between phase and neutral), Output Load Percent /each phase, Output Frequency, Stabilizer Condition and Failure Info, Warnings (Overload, over temperature, input failure, output failure, etc)										
PROTECTION	Though a software support and "Remote Management System" (Via Network), the ability of monitoring and management (optional)										
Input Voltage Protection Stabilizer shut off electronically under / over voltage											
Output Voltage Protection Stabilizer shut off electronically under / over voltage											
Input Current Protection MCCB with motor											
Output Current Protection Motorized MCCB (optional)											
Output Overload Protection Stabilizer shut off, 101%-125% 3 min., 126%-150% 10 sec., %151 load 0,2 sec., after then output shut-	Stabilizer shut off, 101%-125% 3 min., 126%-150% 10 sec., %151 load 0,2 sec., after then output shut-off										
Over Temperature Protection Stabilizer shut off for over - temperature											
Manual By-Pass Switch (I-0-II) position manual By-Pass switch for failure and maintenance											
Surge Arrester Suitable surge arrester unit for lightning and high voltage (optional)											
ENVIRONMENTAL CONDITIONS											
Operating Temperature -10 °C ~ +40 °C											
Altitude < 3000 m	< 3000 m										
Humidity 90% none condensed	90% none condensed										
Acoustic Noise < 60 dB < 65 dB											
CABIN SPECIFICATIONS											
Type Indoor											
Protection Class IP 21											
Color RAL 7035											
Base Wheel / Plinth											
Cooling Air forced Fans											
Dimensions (WxDxH) cm 90x120x170 240x80x170 250x100x170 290x125x170300x125x220330											
Weight (kg) 1100 1300 1500 1900 2100 2300 2700 3100 3500 4000)x125x220										