







**10-2000** kVA

1-30 kVA



STATIC VOLTAGE STABILIZER











#### **HIGHLIGHTS**

- Microprocessor Controlled Voltage Stabilisation
- Precise Output Voltage Accuracy
- True Static-Modular Design with **Thyristor Technology**
- High Voltage Regulation Speed
- Maintenance Free

## Highly Reliable and Endurable Static Design

- Microprocessor controlled Static design stabilizers automatically regulate and protect the loads against dangerous voltage changes.
- Compatible with all load types and offering independent phase control, they deliver ultra-fast response times in correcting under / over voltages, sags and surges - making them ideal for highly sensitive / mission critical loads and applications.

**CERTIFICATES** 







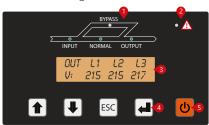






### Standart Electrical Features

- Wide Input Voltage Range
- Precise Output Voltage Accuracy ±1% to ±5%
- Ultra Fast Voltage Regulation (500V/s)
- True 32-bit Microcontroller Controlled
- High Efficiency > 97%
- Independent Phase Regulation to Correct Voltage aand Load Imbalance
- Electronic Protection Against to Over Load, Low Voltage, High Voltage, Over Temperature, Over Current and Short Circuit
- Overload Protection up to 150%
- Fast Responsive to Voltage Surges
- User Friendly, Easy and Comprehensive LCD Display and Mimic Diagram



- 1. Input Led
  Bypass Led
  Normal Led
  Output Led
- 2. Alarm/Warning Led
- 3. LCD Display
- 4. Menu Kevs
- 5. On/Off Button
- Advanced Alarm Menu
- Manual Bypass
- Auto Restart when Mains Available
- 512 Events Log Memory (Opt.)
- Full Electronic Static Structure with No Moving Parts,
   Delivering a 'Maintenance Free' Voltage Regulation Solution
- Compact Design with High Quality Material and Minimum Malfunction Hazard
- Designed, Manufactured and Supplied to Comply with
- Fully CE Compliant and Labelled

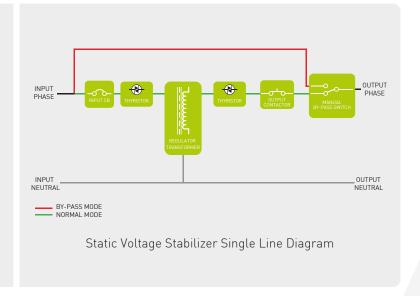
### Flexibility

- Available at any required input voltage value and range.
- Available at any required output voltage value and tolerance from ±1% to ±5%.
- Output voltage can be adjusted by the LCD panel.
- Functionable with 50Hz and 60Hz.
- Optional MCCB can be added to the output to provide additional protection.
- Optional automatic by-pass unit can be added to the output.
- Isolation transformer or voltage changing auto-transformer can be added for both input and output.
- Indoor and outdoor special cabinets with various IP protection classes can be provided.
- Optional EMC-filters at both input and output.
- Optional high-voltage protection and surge arrester.
- Input and output terminals can be designed and located specially on the cabinet.
- Optional Modbus.

# MICROPROCESSOR CONTROLLED THYRISTOR TECHNOLOGY

Based on high speed semiconductor (Thyristor) technology and all digital microprocessor control, MST Series Static Voltage Stabilizers continuously monitor the incoming supply. Should the incoming voltage rise or drop, the stabilizers will automatically control the output to ensure the voltage reaching the load equipment always remains constant at the requisite voltage.

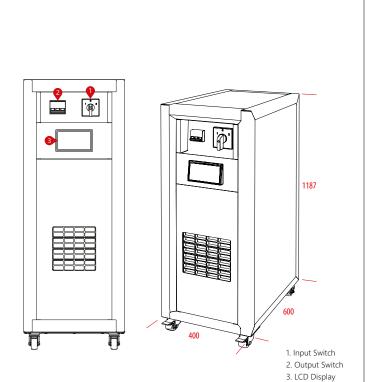
Inbuilt spike protection ensures the load is continuously protected against harmful mains born high energy spikes and surges.



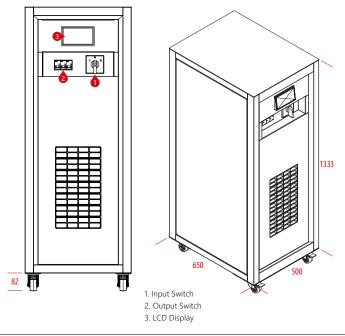


MST SERIES 10-30 kVA

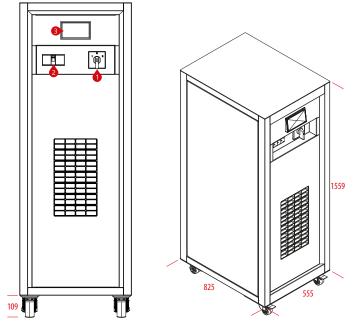
### **DETAILS**



MST SERIES 40-60-75 kVA



MST SERIES 100-120-150 kVA

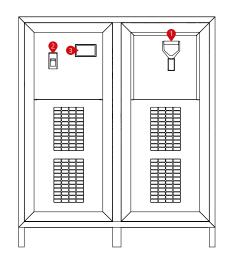


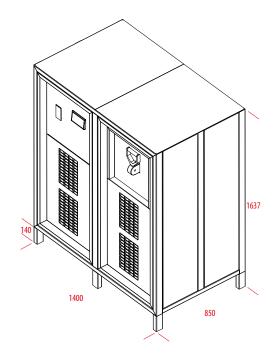
- 1. Input Switch
- 2. Output Switch
- 3. LCD Display



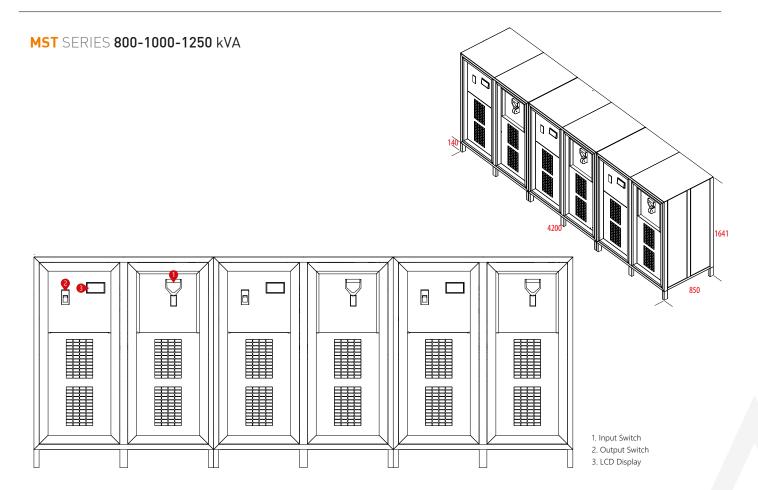
### **DETAILS**

### MST SERIES 200-300-400-500-600 kVA





- 1. Input Switch
- 2. Output Switch
- 3. LCD Display







MODEL																				
Capacity (kVA)		10	15	22,5	30	45	60 75	100	120	150	200	300	400	500	600	800	1000	125	1500	2000
INPUT			1	'					_				1	'	'			,	_	
In. Vol. Correct. Interval								275	~450 V	AC (Op	tional:	190V~	485V)							
Operation Frequency		50~60 Hz (±10%)																		
Line Input Protection									Overc	urrent	Therm	ic Fuse								
OUTPUT																				
Output Voltage		380 V	380 VAC RMS ±3% (Std.) 380 VAC RMS ±5% (Optional 1% to 5%)																	
Overloading		10min 125% Load, 1min 150% Load, 10sec 200% Load, 20ms 500% Load																		
Correction Speed		500 Volt/sec																		
Upturn Period										20	ms									
Output Protection		Short Circuit, Overload, Overtemperature, Over and Low Voltage Protections																		
WORKING PRINCIPLE				Micro	oroces	sor Co	ntrolled, Ful	l Auton	natic, St	atic, Se	mi Coı	nducto	r Electi	onic St	tructur	e Main	tenano	e Fre	e	
CONTROL PANEL																				
Display and Buttons		Load Level, Input-Output Voltage																		
Alert Message		Input Low/High, Output Low/High, Overtemperature																		
GENERAL																				
Efficiency									>	97% (F	ull Loa	d)								
Mechanical Bypass		"Manually Controlled Line - PAKO SWITCH Selects Voltage Regulator" Switch Turn On/Off																		
Protection Level		IP20																		
Standard		TS EN 61000-6-2:2006, TS EN 61000-6-3:2007 (EMC), IEC60204-1+A1:2008 (LVD)																		
ENVIRONMENT																				
Operating Temperature		-10°C~50°C																		
Storage Temperature		-25°C~60°C																		
Relative Humidity		<90%, DIN (40040)																		
Altitude	<2000m																			
Noise Level		<50 dB					<55 dB		<58 dB		<58 dB			<63 dB						
<b>DIMENSIONS &amp; WEIGH</b>	-IT																			
Cabinet Dimensions (mm)	Width	400				500		555			1400					4200				
	Depth	600				650		825			850					850				
	Height		11	187			1333		1559		1637					1637				
Weight (Kg)		80	95	112	120	175	203 233	277	320	369	639	775	857	930	2500	2750	3500	375	0 4500	) 5500

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MODEL												
Capacity (kVA)		1	2	3	7,5	10	15	20	30			
INPUT			'		'		'		'			
In. Vol. Correct. Interv	al			•	120~230 / 145~2	45 / 160~250 VA	AC .					
Operation Frequency		50~60 Hz (±10%)										
Line Input Protection		Overcurrent Thermic Fuse										
OUTPUT												
Output Voltage		380 VAC RMS ±3% (Std.) 380 VAC RMS ±5% (Optional 1% to 5%)										
Overloading		10min 125% Load, 1min 150% Load, 10sec 200% Load, 20ms 500% Load										
Correction Speed		500 Volt/sec										
Upturn Period		20ms										
Output Protection		Short Circuit, Overload, Overtemperature, Over and Low Voltage Protections										
WORKING PRINCIPLE		Microprocessor Controlled, Full Automatic, Static, Semi Conductor Electronic Structure Maintenance Free										
CONTROL PANEL												
Display and Buttons		Load Level, Input-Output Voltage										
Alert Message		Input Low/High, Output Low/High, Overtemperature										
GENERAL												
Efficiency					>97% (F	ull Load)						
Mechanical Bypass		"Manually Controlled Line - PAKO SWITCH Selects Voltage Regulator" Switch Turn On/Off										
Protection Level		IP20										
Standard		TS EN 61000-6-2:2006, TS EN 61000-6-3:2007 (EMC), IEC60204-1+A1:2008 (LVD)										
ENVIRONMENT												
Operating Temperature		-10°C~50°C										
Storage Temperature		-25°C~60°C										
Relative Humidity		<90%, DIN (40040)										
Altitude		<2000m										
Noise Level		<50 dB										
DIMENSIONS & WEIG	GHT											
Dimensions (mm)	Width	192			260			430				
	Depth	361			453			596				
	Height	352			416			777				

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