WSVS
SERIES

1 UPS

10-2000 kVA 3:3 PHASE
1-30 kVA 1:1 PHASE

STATIC VOLTAGE STABILIZER

TOWER | PF= 0.8 POWER FACTOR | Service SERVICE

INDUSTRY | TRANSPORT | MEDICAL

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.

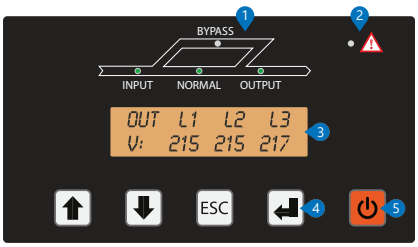
• Compatible with all load types and offering independent phase control, they deliver ultra-fast response times in correcting under / over voltages, sags and surges - making them ideal for highly sensitive / mission critical loads and applications.

CERTIFICATES

CE PCT TSE

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 Keys
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

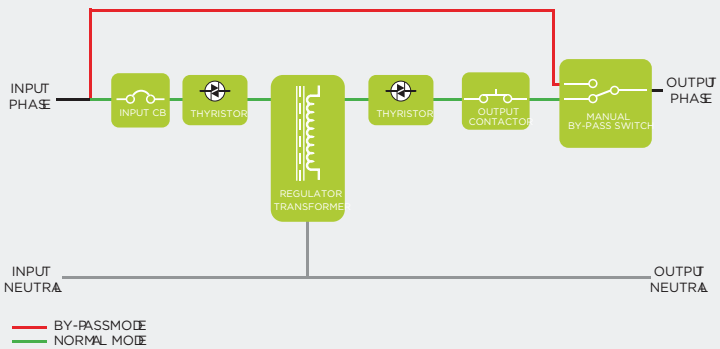
Flexibility

- 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 additonal 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, WSVS 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.

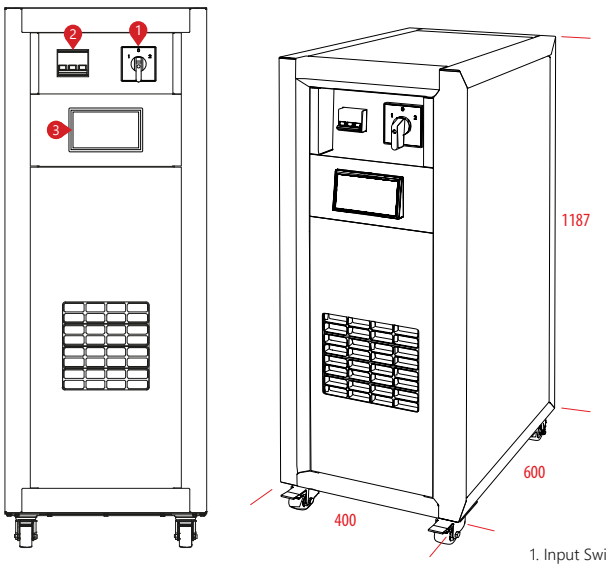
Inbuilt spike protection ensures the load is continuosly protected against harmful mains born high energy spikes and surges.



Static Voltage Stabilizer Single Line Diagram

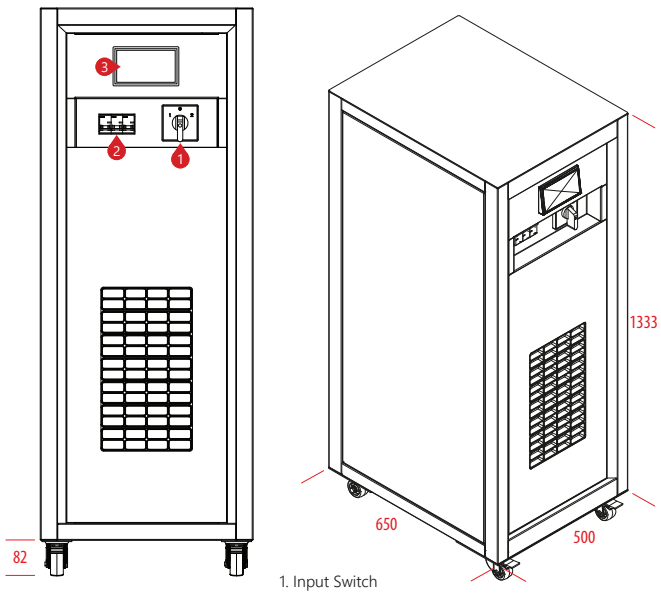
DETAILS

WSVS SERIES 10-30 kVA



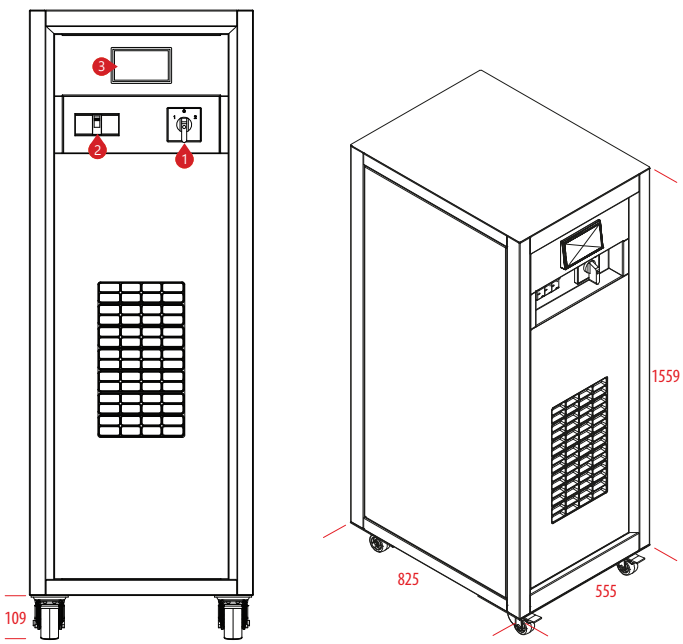
1. Input Switch
2. Output Switch
3. LCD Display

WSVS SERIES 40-60-75 kVA



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

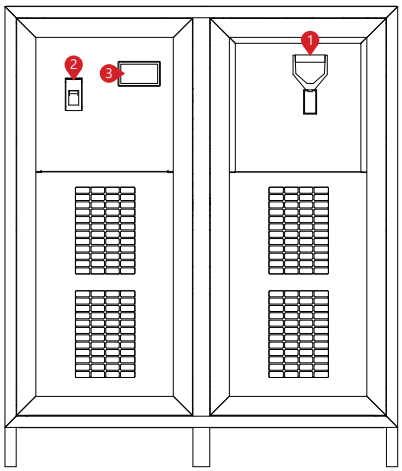
WSVS SERIES 100-120-150 kVA

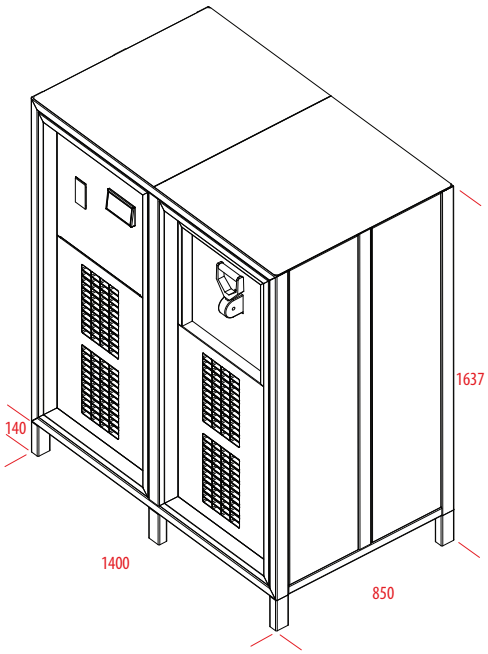


1. Input Switch
2. Output Switch
3. LCD Display

DETAILS

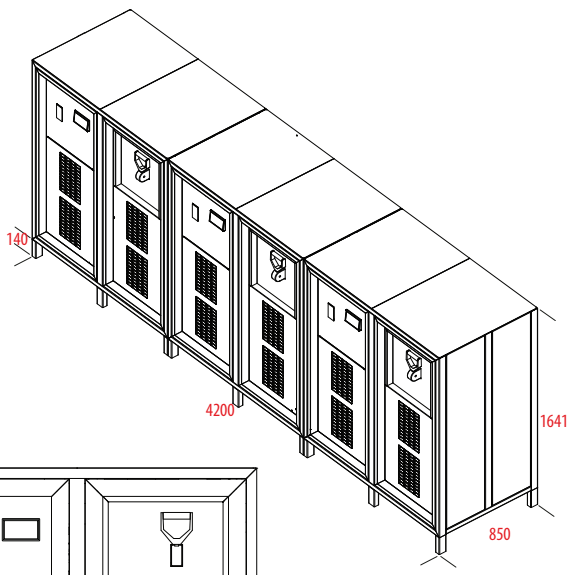
WSVS SERIES 200-300-400-500-600 kVA

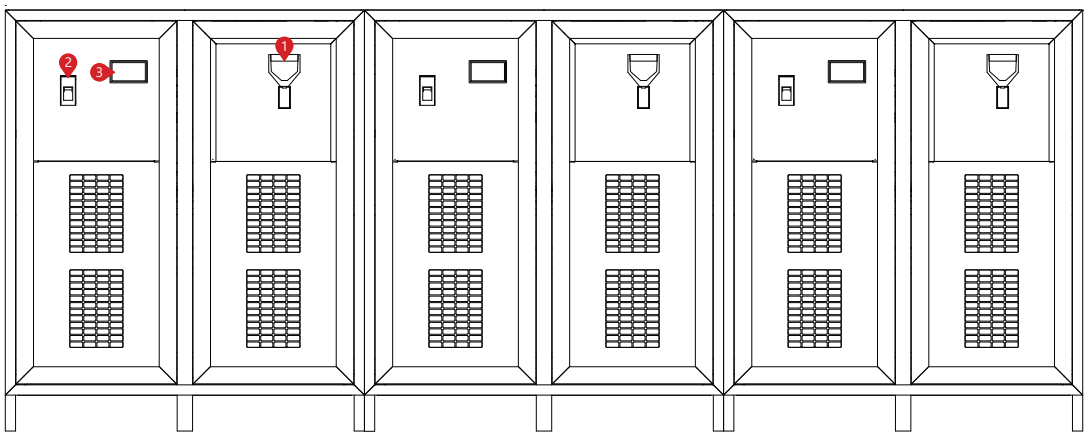




1. Input Switch
2. Output Switch
3. LCD Display

WSVS SERIES 800-1000-1250 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	1250	1500	2000
INPUT																				
In. Vol. Correct. Interval	275~450 VAC (Optional: 190V~485V)																			
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% (Full 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)																			
ENVIRONMENTAL																				
Operating Temperature	-10ºC~50ºC																			
Storage Temperature	-25ºC~60ºC																			
Relative Humidity	<90%, DIN (40040)																			
Altitude	<2000m																			
Noise Level	<50 dB				<55 dB			<58 dB			<58 dB		<63 dB							
DIMENSIONS & WEIGHT																				
Cabinet Dimensions (mm) Width	400				500			555			1400					4200				
Cabinet Dimensions (mm) Depth	600				650			825			850					850				
Cabinet Dimensions (mm) Height	1187				1333			1559			1637					1637				
Weight (Kg)	80	95	112	120	175	203	233	277	320	369	639	775	857	930	2500	2750	3500	3750	4500	5500

MODEL									
Capacity (kVA)		1	2	3	7,5	10	15	20	30
INPUT									
In. Vol. Correct. Interval		120~230 / 145~245 / 160~250 VAC							
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% (Full 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		-10ºC~50ºC							
Storage Temperature		-25ºC~60ºC							
Relative Humidity		<90%, DIN (40040)							
Altitude		<2000m							
Noise Level		<50 dB							
DIMENSIONS & WEIGHT									
Dimensions (mm)	Width	192		260			430		
	Depth	361		453			596		
	Height	352		416			777		