

## HRST SERIES STATIC VOLTAGE STABILIZERS

10 – 1000 kVA 3/3 PHASE

1 – 30 kVA 1/1 PHASE

- ✓ Thyristor Technology Design
- ✓ Voltage Regulation controlled by Microprocessor
- ✓ Fast & Precise Output Voltage Correction
- ✓ Full Automatic Design
- ✓ Suitable for Industrial Applications



### Standard Electrical Features

High Efficiency over 97%

User Friendly LCD Display and Mimic Diagram

Precise Output Voltage Correction Accuracy  $\pm 1\%$  to  $\pm 5\%$

Overcurrent, High Temperature, High-Low Voltage and Short Circuit Protections

Microprocessor Controlled

Ultra Fast Voltage Regulation (500V/s)

Manual Bypass

Independent Phase Regulation

Wide Input Voltage Range

### Optional Features

Different Input & Output Voltage Availabilities (380 – 400 – 415 VAC) upon request

Can work with 50Hz and 60Hz Grids

Can work with Isolation Transformers in the Input or Output

Different IP protection classes upon request

Output voltage can be adjusted by the LCD panel.

## Technical Specifications

<b>INPUT</b>		<b>10 - 1000 kVA 3/3 Phase ; 1 - 30 kVA 1/1 Phase</b>																	
Input Voltage Correction Interval	<b>1:1 Phase:</b> 120~230 / 145~245 / 160~250 VAC · <b>3:3 Phase:</b> 275~450 VAC (Optional: 190V~485V)																		
Operation Frequency	50~60 Hz (±10%)																		
Line Input Protection	Overcurrent, Low and High Voltage Protection (Optional)																		
<b>OUTPUT</b>																			
Output Voltage	<b>1:1 Phase:</b> 230 VAC RMS ±5% · <b>3:3 Phase:</b> 400 VAC RMS ±5% (Optional 1% to 5%)																		
Overload Capacity	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																		
<b>GENERAL</b>																			
Operation	Full Automatic, Microprocessor Controlled, Static, Thyristor Technology																		
Cooling	Smart Fan System																		
Monitoring	Monitoring Input Voltage, Output Voltage-Current,% Load and Temperature Values via Panel																		
Total Efficiency	>97% at full load																		
Mechanical Bypass	Manually Controlled - Selects Voltage Regulator" Switch Turn On/Off																		
Protection Level	IP 20																		
Operating Temperature	-10°C~50°C																		
Storage Temperature	-25°C~60°C																		
Relative Humidity	<90%, DIN (40040)																		
Altitude	<2000m																		
<b>DIMENSIONS &amp; WEIGHT 3/3 Phase-kVA</b>		10	15	22.5	30	45	60	75	100	120	150	200	300	400	500	600	800	1000	
Width mm	400			500			600			1400			4200						
Depth mm	600			650			850			850			850						
Height mm	1200			1400			1600			1700			1650						
Net Weight (Kg)	80	98	115	125	175	205	235	280	320	375	640	780	860	940	2500	2750	3500		
Noise Level	<50 dB			<55 dB			<58 dB			<58 dB			<63 dB						
<b>DIMENSIONS &amp; WEIGHT 1/1 Phase-kVA</b>		1	2	3	7.5	10	15	20	30										
Width mm	200		270		450														
Depth mm	350		455		600														
Height mm	350		420		800														
Net Weight (Kg)																			
Noise Level					<50 dB														