



## Automatic Voltage Stabilizer

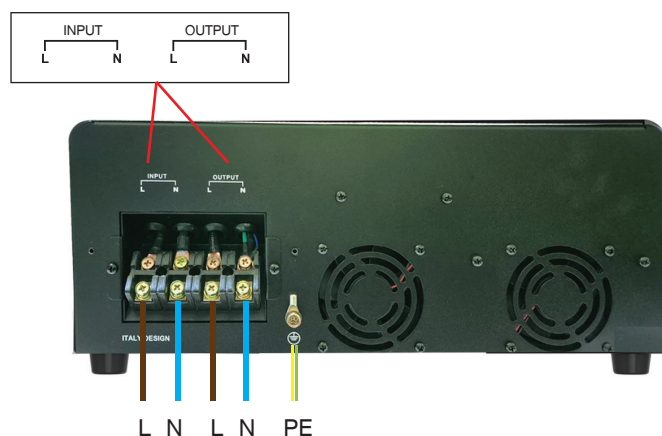
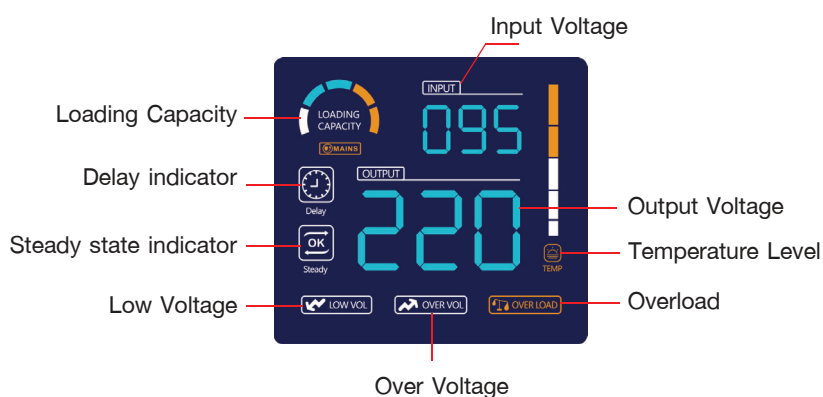
# MST-20kVA

## Thyristor Type

The MST automatic voltage stabilizer is suitable for household electrical appliances such as air conditioners, refrigerators, computers, communication equipment, medical equipment, and lighting, which require stable power. It allows equipment to operate efficiently and reduces the rate of damage to electrical appliances. It is also suitable for places with unstable voltage, such as residences, commercial buildings, industrial plants, and establishments, including environments that require voltage accuracy. Helps electrical appliances operate normally and extends their service life.

### Features:

- Supports input voltage from 95-250 volts.
- Automatic voltage regulation using Thyristor type.
- Controlled by a Microcontroller (MCU).
- Easy to install, saves space, can be wall-mounted.
- Displays operation with an LED graphic screen.
- Has a delay system to protect electrical appliances in the house.
- Automatically starts (Auto-start) when power returns to normal.
- Toroid transformer, the iron core is cold-rolled (CRGO), lightweight, and highly efficient.
- Does not generate sparks while operating (None spark).
- Low noise during operation (Extremely low noise).
- Has a short circuit protection circuit.
- Overload protection.
- Normal / Bypass system.
- ISO9001: 2015 certified.



# TECHNICAL SPECIFICATIONS

<b>Model</b>		<b>MST-20KVA</b>
<b>Power range</b>		20KVA
<b>Phase</b>		Single
<b>Input</b>		
<b>Input voltage range</b>		95-250
<b>Open circuit losses</b>		≤85W
<b>Output</b>		
<b>Output voltage range</b>		AC 220+/-5%
<div> <div>Output Power</div> </div>		
<b>Frequency</b>		Compatible 40~70HZ
<b>Regulation response</b>		0ms
<b>Load efficiency</b>		Load efficiency of 95%
<b>Regulation mode</b>		No contact, zero crossing switch
<b>Load type</b>		Capacitive load, Inductive load, Resistive load, Mixed load
<b>Energy loss when unloaded</b>		≤30W
<b>Rated current</b>		100A
<b>Protection</b>	Short circuit protection	
	Surge protection: 2.5kv, 1/50μs	
	Over-load protection	
	Over-temperature protection: threshold value 120°C	
	Over-voltage protection: output threshold value 247v	
	Under-voltage protection: output threshold value 170v	
<b>Overload</b>	The longest protection time for overload 1-1.2 times is 30 minutes	
	overload 1.2-1.4 times is 12.5 minutes	
	overload 1.4-1.6 times is 7.5 minutes	
	overload 1.6-2 times is 1.5 minutes	
	overload 2 times or more is 1 second.	
<b>Short-circuit</b>		Electronic detection and circuit breaker dual protection
<b>Output delay</b>		5s/200s delay mode.selectable, setting 200S delay can prevent the load from starting repeatedly for a short time
<b>Transformer type</b>		Toroidal, autotransformer
<b>Bypass function</b>		Yes
<b>Power factor</b>		0.98
<b>Efficiency</b>	<b>AC-AC</b>	≥95%
<b>Acoustic</b>	<b>Noise level</b>	≤45dB
<b>Environment</b>	<b>Temperature</b>	-20°C to +40°C
	<b>Humidity</b>	0% to 80%
	<b>Altitude</b>	≤3000m
	<b>Protection class</b>	IP20
<b>Net Wt.(kg)</b>		39
<b>Dimensions(cm)</b>		36.5 x 52 x 20.5

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