



MVC SERIES

Stabilizers



- Thank you for purchasing the SMProfessional MVC Series Voltage Stabilizer.
 - To ensure optimal performance and safety, please read this manual carefully and retain it for future reference.
 - For any complaints, feedback, or testimonials, please contact your distributor or dealer.
-General Information
 -Important Safety Precaution
 -Features
 -Installation
 -Wiring Diagram & connection
 -Sabilizer Operation
 -Meter Operation
 -Technical Specifications

General Information

The MVC Voltage Stabilizer is designed to stabilize voltage fluctuations, ensuring consistent output voltage for sensitive electrical equipment. It operates by manually adjusting the input voltage selection knob to increase or decrease voltage as needed.

Important Safety Precautions

- Place the stabilizer in a well-ventilated, dry location, away from direct sunlight, moisture, and heat sources.
- Ensure proper grounding to prevent electrical hazards.
- Do not cover the stabilizer while in use, as it generates heat during operation.
- Never open the stabilizer's casing while it is powered on to avoid electric shock.
- If experiencing unstable grid power, use the bypass mode to protect connected devices.

Features

- Wide input voltage range for reliable performance.
- Manual voltage selection for precise control.
- High safety factor with built-in protection mechanisms.
- Overload, high/low voltage, and short-circuit protection with buzzer alerts.
- Automatic shut-off if the output voltage exceeds safe limits.
- Durable transformer made of advanced silicon steel for long life.

Installation

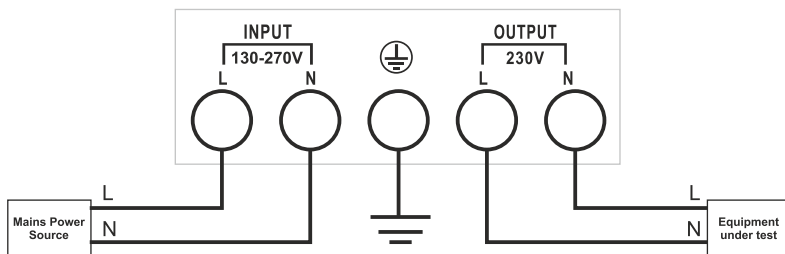
Setup Instructions:

- 1. Placement:** Position the stabilizer on a stable, non-flammable surface.
- 2. Connections:**
 - Connect the stabilizer input terminals to the mains power source.
 - Connect the stabilizer output terminals to your electrical equipment.
 - Ensure correct wiring: Live, Neutral, and Earth must be connected properly.
- 3. Power On:** Before switching on, verify that all connections match the wiring diagram.

Wiring Diagram & Connection

Ensure the following connections are made:

- Input Terminals: Connected to the mains power.
- Output Terminals: Connected to the equipment requiring voltage stabilization.
- Earth Connection: Must be firmly connected to ensure safety.



Note: Before powering on, double-check all connections against the wiring diagram to ensure everything connected properly.

Stabilizer Operation

1. Powering On:

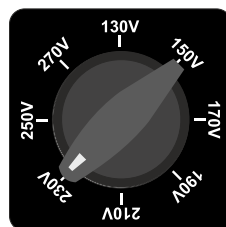
- Set the input voltage selection to 230V.
- Turn on the main power switch; the display will show "Delay (D.L)" before stabilizing at 230V.

2. Input Voltage Selection:

- Adjust the manual selector switch according to the input voltage.
- If input voltage is too high or too low, the stabilizer will emit a beep.

3. Protection Features:

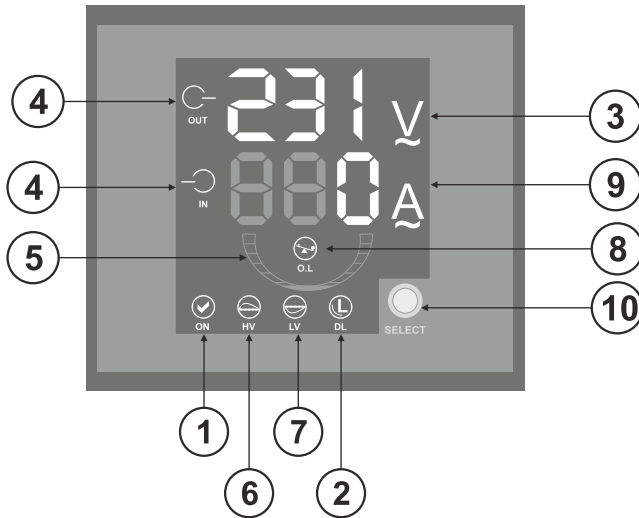
- If voltage exceeds safe levels, the stabilizer will automatically shut off.
- If overloading occurs, the stabilizer will cut off output power.



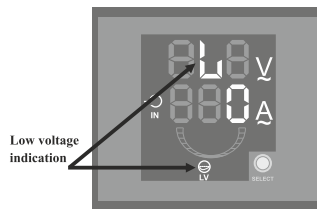
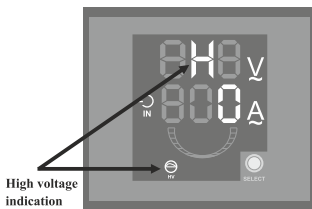
- Not to connect any equipment until the stabilizer is fully operational other wise it will damaged the equipment.
- Always ensure that the input voltage setting matches the actual voltage of your source before turning on the stabilizer

Input voltage selection knob	Input Operating range for 230V Output
130V	95V TO 147V
150V	106V TO 160V
170V	118V TO 186V
190V	133V TO 205V
210V	155V TO 228V
230V	170V TO 250V
250V	189V TO 272V
270V	213V TO 297V

Meter Operation



1. **Unit ON Indicator:** Confirms the stabilizer is powered on.
2. **Delay Indicator:** Signals the delay mode before stabilization.
3. **Input/Output Voltage:** It indicates Input and output voltage.
4. **Input/output Voltage Indication:** Shows real-time input voltage.
 - ↻ Input voltage indication.
 - ↻ Output voltage indication.
5. **Bar Graph Indicator:** Represents the stabilizer's current load.
6. **High Voltage (H.V) Warning:** Indicates excessive input voltage.
7. **Low Voltage (L.V) Warning:** Indicates input voltage is too low.



8. **Overload (O.L) Warning:** Activates if the stabilizer is overloaded.
9. **Current Indication:** It indicate Output Current when Load connected to the stabilizer.
10. **Select Button:** We can check the input & output voltage on display by using Select Button.

Note:

- After use, please switch off the electric equipment first and then switch off the MVC stabilizer.
- The MVC stabilizer is not recommended for long-run operation under overload conditions.

Technical Specifications

MODEL	MVC-3000VA	MVC-5000VA	MVC-8000VA
VA Rating	3000VA	5000VA	8000VA
Input voltage	130V-270V AC		
Output voltage	230V AC (±10V)		
Frequency	50Hz-60Hz		
Rated current	MVC-3000VA: 13.5A	MVC-5000VA: 22.5A	MVC-8000VA: 36A
Protection	Over-voltage (245V), Under-voltage (170V), Overload, Short-circuit		
Efficiency	>95%		
Operating temprature	-10°C+50°C		
Relative Humidity	≤90%		
Dimensions (W×L×H)	280×330×163MM	320×370×163MM	320×370×163MM
Net weight	8.10 kg	11 kg	15.9 kg

MODEL	MVC-10000VA	MVC-12000VA	MVC-15000VA
VA Rating	10000VA	12000VA	15000VA
Input voltage	130V-270V AC		
Output voltage	230VAC (±10V)		
Frequency	50Hz-60Hz		
Rated current	MVC-10000VA: 45A	MVC-12000VA: 54A	MVC-15000VA: 67.5A
Protection	Over-voltage (245V), Under-voltage (170V), Overload, Short-circuit		
Efficiency	>95%		
Operating temprature	-10°C+50°C		
Relative Humidity	≤90%		
Dimensions (W×L×H)	380×410×193MM	380×410×193MM	380×460×193MM
Net weight	18 kg	20.2 kg	24.4 kg

Troubleshooting Guide:

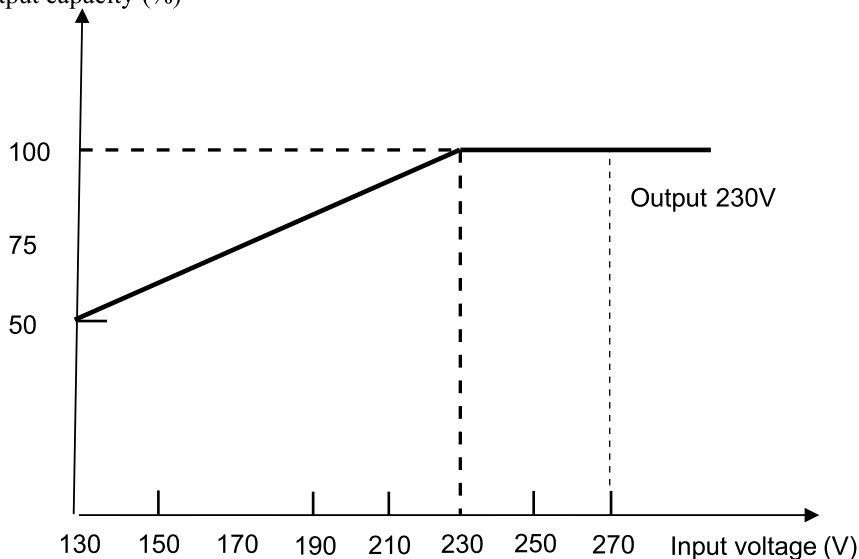
S/N	Symptoms	Possible Cause	Solution
1.	Stabilizer does not start	Input voltage out of range	Connect to proper voltage source
2.	Unstable output voltage	Fluctuating input voltage	Use a stable power source
3.	No output voltage	High/low voltage protection activated	Adjust input voltage setting
4.	High internal noise	Overload or transformer issue	Reduce load or replace transformer
5.	Tripping	Overload, short circuit, or fluctuating input voltage	Check wiring and load capacity

Note: Always turn off connected equipment before switching off the stabilizer. Avoid long-term operation under overload conditions.

Output Capacity Curve

- 100% Load – 230V Output
- Voltage range: 130V to 270V Input

Output capacity (%)



Attentions

1. Please place the voltage regulator in a draughty environment where there is no corrosive gas, explosive gas, conductive dust or steam and the children can't touch it, besides, it mustn't subject to the sunshine or rain.
2. The earth terminal must be firm and reliable to ensure safety.
3. The voltage regulator will produce little heat when it works normally, it is not allowed to cover with any things, otherwise, it would be damaged due to insufficient heat emission.
4. The fluctuation of external voltage that leads the equipment regulates the voltage automatically, it is normal that there is the friction sound from gear.
5. Choose input and output leads with suitable sectional area according to the power of voltage regulator, try to reduce power consumption in the circuit in general, $5A/mm^2$ for copperwire, and reduce half for aluminum wire.
6. The earth wire and neutral wire shall not be connected inversely and the earth wire can't take the place of neutral wire, otherwise, it would cause the equipment body produces electricity or it can't work normally.
7. When the voltage regulator is energized, it is forbidden to open the case for adjusting randomly, in order to prevent the electric shock.
8. In case that the frequency of generation power grid is unstable, but the electricity is needed urgently, user can use the function of directly providing commercial power, to protect the equipment against damage due to unstable frequency.

There is No user-serviceable parts inside. Refer servicing to qualified service personnel.

For Your Records

- Model No.....
 • Serial No.....
 • Dealer's Name.....
 • Dealer's Phone No..... Fax No.....
 • Date of Purchase.....

Note

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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