VCS MITRA

Single-phase servo controlled voltage stabilizer

10 kVA / SINGLE PHASE



VCS MITRA 10 kVA | Air-cooled servo voltage stabilizer.

170–270 V
NR input range

230 V ±1%
Regulated output

Air cooled
Continuous duty

Technical specifications

Automatic electronic voltage control with a servo motor-operated correction mechanism for a regulated single-phase output.

Rated capacity	10 kVA
Output current at 230 V*	43.48 A

*Calculated as rated VA ÷ 230 V; rounded to two decimal places.

Configuration	Single-phase AC
Input voltage range	See model selection on page 3
Nominal output / regulation	230 V AC / ±1%
Operating frequency	47–53 Hz
Efficiency	≥98%
Duty cycle	100% continuous
Voltage correction speed	Up to 70 V/sec
Control response time	10 ms
Voltage control / motor	Automatic servo control / servo motor
Cooling / insulation	Air cooled / Class F
Output waveform	Replication of input waveform
Additional waveform distortion	Nil
Operating temperature	0°C to +45°C
Relative humidity	Up to 90% RH

Response and correction
10 ms is the control response time. The servo corrects voltage at up to 70 V/sec; total correction time depends on the required voltage change.

Model selection

Six model options in the same cabinet footprint.

10 kVA **MITRA**	NR	170-270 V AC Input voltage range	VCS-Mitra-10 NR	
	MR	150-270 V AC Input voltage range	VCS-Mitra-10 MR	Single-phase AC
7.5 kVA **MITRA**	NR	170-270 V AC Input voltage range	VCS-Mitra-7.5 NR	
	MR	150-270 V AC Input voltage range	VCS-Mitra-7.5 MR	Single-phase AC
5 kVA **LAGHU**	WR	120-270 V AC Input voltage range	VCS-Laghu-5 WR	
	XR	90-270 V AC Input voltage range	VCS-Laghu-5 XR	Single-phase AC

285 × 525 × 370 mm
Length × Depth × Height | Common cabinet

Approx. 60 kg
10 kVA unit

More input options?

For more input options, contact us for customization.

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Control, protection & construction



Front control panel



Side ventilation



Rear connections

CONTROL & PROTECTION

- Digital input and output voltage display (phase to neutral).
- Auto / manual selection; input, output, high / reverse and low / forward indications.
- Output overvoltage and undervoltage protection with adjustable monitoring.
- Automatic output disconnection through relay / contactor; audible trip alarm.

MECHANICAL DETAILS

- Dimensions: 285 × 525 × 370 mm (Length × Depth × Height).
- Approximate weight: 60 kg.
- Powder-coated sheet metal cabinet; RAL 7032 Siemens Grey finish.
- Ventilation louvers; indoor installation and continuous operation.

APPLICATIONS & CUSTOMIZATION

For computers, office equipment, laboratory instruments, electronics and small industrial machinery. For more input options or other customization, visit www.voltcontrolsystem.com or contact us to discuss your requirements.

Manufactured by Volt Control System

Office: Unit 06, Electronics Sadan - 01, MIDC, Bhosari, Pune - 411026.
Factory: Units 07, 17, 18 & 21, Electronics Sadan - 01; Unit 03, Electronics Sadan - 02, MIDC, Bhosari, Pune - 411026.

+91 9834816500 / +91 9112691191

Sales: sales@voltcontrolsystem.com

Export: shruti@voltcontrolsystem.com | Service: punefactory@voltcontrolsystem.com

Due to continuous product improvement, dimensions and specifications may change without prior notice.