



Automatic Voltage Regulation



Spike & Surge Protection



Electrical Noise Filter



Lightning Surge Protection



Restart Time Delay



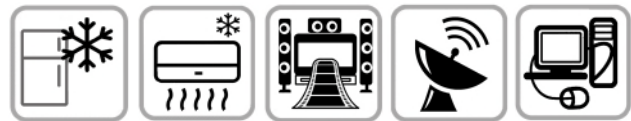
User Selectable Response Times, Output Voltage & Accuracy



MINI
SVR SERIES



**AC AUTOMATIC
VOLTAGE STABILISERS
& LINE CONDITIONERS**



- ✓ Digital Servo Electronic Design
- ✓ Brownout & Over / Under Voltage Protection
- ✓ Transient Voltage Surge & Spike Protection
- ✓ Electrical Noise & Lightning Surge Protection
- ✓ Wide Permissible Input Voltage
- ✓ Precise Output Voltage Accuracy
- Default $\pm 1\%$ (Adjustable $\pm 1\%$ to $\pm 5\%$)
- ✓ Inbuilt Manual Bypass
- ✓ Restart Time Delay / Waiting Time to Limit Nuisance Tripping

1 kVA to 15 kVA

**SINGLE PHASE - 2 WIRE
50 / 60Hz**

H Models
220V / 230V / 240V

L Models 
110V / 115V / 120V / 127V

Low Cost Protection For Today's Modern Power Needs

The Mini SVR Series AC Automatic Voltage Stabiliser range is based on 7 different power ratings:

- 1 kVA (1 kW)
- 2 kVA (2 kW)
- 3 kVA (3 kW)
- 5 kVA (5kW)
- 7.5 kVA (7.5 kW)
- 10 kVA (10 kW)
- 15 kVA (15 kW)

By boosting low voltages and stepping down high voltages, they ensure a stable output voltage. In addition, Mini SVR Series Voltage Stabilisers safeguard against all too common everyday transient voltages and spikes - typically introduced into the mains supply by nearby disturbances resulting from peak power demands or stop / start operation of electrical machinery.

Capable of supporting all electrical and electronic modern office and general household appliances (including air conditioners, computers, fridges, TV, satellite and any other electrical loads, models are available for situations where the incoming mains utility supply is between 165V to 265V (**H Models**) and, 90V to 140V (**L Models**).

Principle of Operation

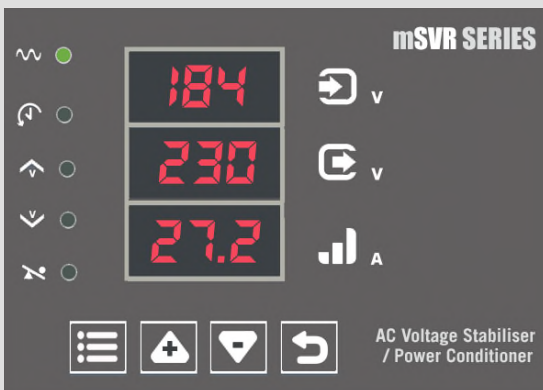
mSVR Series AC Voltage Stabilisers are intended as low cost solutions, being designed around a variable transformer.

A solid state microprocessor based Servo-Amplifier continuously monitors the output voltage of the stabiliser. Should, due to an incoming voltage or load current change, the output voltage deviate from the required value, the Amplifier sensor instructs the servo motor to rotate the brush-gear on the variable transformer to correct the output for the deviation.

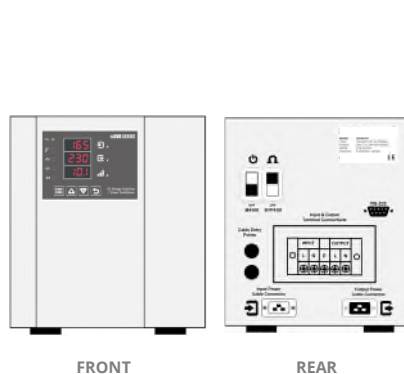
Over the years with advances in semi-conductor, motor and digital technologies, our development engineers have considerably enhanced the performance of the basic design principle. Our latest Servo Electronic generation of solutions deliver the most reliable, fastest acting, highly stable and most energy efficient operation seen in the market today.

GENERAL TECHNICAL SPECIFICATION		
RATINGS	kVA / kW	1, 2, 3, 5, 7.5, 10 & 15 kVA / kW
NOMINAL INPUT VOLTAGES	H MODELS	220V - 230V - 240V AC Single Phase, 2 Wire (L,N & G/E)
	L MODELS	110V - 115V - 120V - 127V AC Single Phase, 2 Wire (L,N & G/E)
INPUT VOLTAGE RANGE		See Relevant Model Selection Tables
OUTPUT VOLTAGE ACCURACY		±1% (Default) - Adjustable 1% to 5%
OPERATING FREQUENCY		50 / 60 Hz (35 to 63 Hz)
RESTART TIME DELAY		5 Seconds (adjustable) - To prevent nuisance tripping and protect sensitive equipment against damage. Count down displayed on Display Front Panel
SURGE SUPPRESSION		TVSS - Protects loads against high-energy Spikes and Transient Voltages
SURGE RATING		300 Joules on all Models + Class II SPD fitted
OVERLOAD RATINGS		Operational Overload Settings are set via the Digital Display Panel, with electro-mechanical overload ratings standing at 10 x Max. Current for 100 milliseconds 2.5 x Max. Current for 10 seconds 1.5 x Max. Current for 1 minute
NOISE FILTERING		LC Filter delivering Common Mode and Differential Mode Attenuation of 50dB at 100kHz
RESPONSE TIME		Typically a 10% supply variation will be corrected within 2.5% in 0.6 seconds.
EFFICIENCY		≥98%
MANUAL BYPASS		Manual Bypass with Interlocking
OVER / UNDER VOLTAGE		Display Indication with Output Automatically Disconnected
OVERLOAD PROTECTION		Display Indication with Output Automatically Disconnected
SHORT-CIRCUIT PROTECTION		Automatic Tripping of the Input Circuit Breaker / Switch
LOSS OF SUPPLY		Auto Restart on return of the utility supply
DIGITAL DISPLAY METERING		Showing Input Volts, Output Volts & Current (Amps)
ALARMS / INDICATIONS		Restart Delay, Normal, Irregularity, Low Volt, Over Volt, & Overload
INTERFACE		RS-232 - DB 9 Pin Style Port
OPERATING TEMPERATURE		0 to 45°C. Derate by 2% for each additional °C up to max. of 60°C
MAXIMUM ALLTITUDE		1000 meters. Derate by 2.5% for each additional 500 metres
RELATIVE HUMIDITY		Suitable for indoor tropical use up to 90% RH (non-condensing)
EMC CONFORMANCE		Complies with BS/EN 55022 & the relevant parts of BS/EN 61000 standards
CE CERTIFICATION		CE Marked – being fully compliant with European Union Directives 2014/30/ EU (The EMC Directive) and 2014/35/EU (The Low Voltage Directive)
CONSTRUCTION		Freestanding Enclosures to IP20 (NEMA 1 Style) - BS/EN 60529 Outdoor IP54 (NEMA 3 Style) available as an option (-IP54) as well as 19" Rack Mountable Solutions (-RM)
COLOUR		RAL 1013 (Oyster White - Epoxy Powder Coat)
INPUT & OUTPUT CONNECTIONS		See Relevant Model Selection Tables
PHYSICAL SIZES & WEIGHTS		See Relevant Model Selection Tables
STANDARD WARRANTY		24 Months / 2 Years

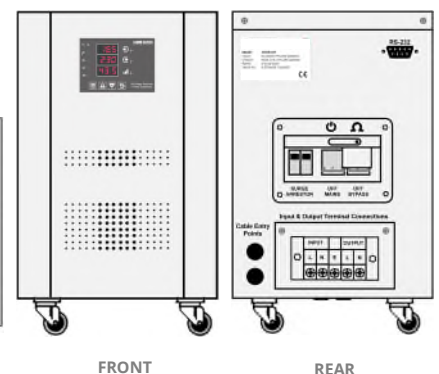
FRONT DISPLAY PANEL



FLOOR STANDING MODELS ON FEET



FLOOR STANDING MODELS ON CASTORS



mSVR SERIES - MODEL RANGES

SELECT THE MOST APPROPRIATE mSVR MODEL

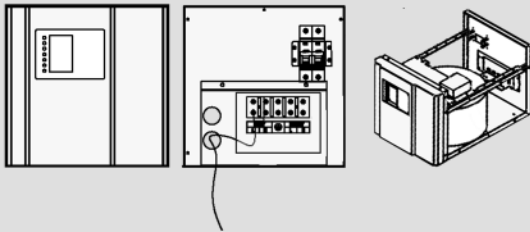
mSVR-H Series Models

220V to 240V

The mSVR-H Series AC Voltage Stabiliser / Power Line Conditioner range is based on 7 different power ratings:

- 1 kVA (1 kW)
- 2 kVA (2 kW)
- 3 kVA (3 kW)
- 5 kVA (5 kW)
- 7.5 kVA (7.5 kW)
- 10 kVA (10 kW)
- 15 kVA (15 kW)

Suitable for all electronic and electrical load types, these microprocessor controlled Servo Regulators are designed to provide a clean and regulated power supply, delivering many years of reliable protection against the vagaries of the utility mains supply.



Front & Back View | 1 to 7.5 kVA SVR Series Models

1 to 15 kVA

INPUT VOLTAGE

165 to 265V

OUTPUT VOLTAGE

230V* ±1%

Adjustable 1 to 5%

* Selectable 220, 230 or 240V Output

mSVR-H MODELS - SELECTION TABLE		220V / 230V / 240V						
MODEL NUMBER		mSVR-1H	mSVR-2H	mSVR-3H	mSVR-5H	mSVR-7.5H	mSVR-10H	mSVR-15H
MAX. RATING	kVA / kW	1000	2000	3000	5000	7500	10000	15000
	AMPS	4.3	8.6	13.0	21.7	32.6	43.5	65.2
INPUT VOLTAGE WINDOW		165V to 265V AC Single Phase, 2 Wire (L,N & G/E)						
OUTPUT VOLTAGE		Default 230V (adjustable 220-240V) Single Phase, 2 Wire (L,N & G/E)						
OUTPUT ACCURACY		Default ±1% (Adjustable 1% to 5%)						
MAX. INPUT		6.1 Amps	12.1	18.2	30.3	45.5 Amps	60.6 Amps	90.9 Amps
INPUT & OUTPUT CONNECTIONS		IEC 320 C13 with 2 x IEC Power Cables			Screw Terminals			
PHYSICAL SIZE (W x H x D) (mm)		210 x 210 x 292		243 x 280 x 342	303 x 320 x 402		400 x 590 x 400	430 x 700 x 452
MOUNTING		On Rubber Feet					On Castors	
WEIGHT		12 Kg	13 Kg	16 Kg	27 Kg	31 Kg	76kg	94 Kg

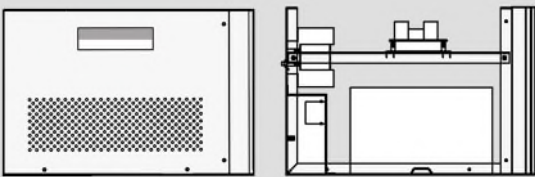
mSVR-L Series Models

110V to 127V



The mSVR-L Series AC Automatic Voltage Stabiliser / Conditioner range offers power ratings:

- 1 kVA (1 kW)
- 3 kVA (3 kW)
- 5 kVA (5 kW)



Side View | External & Internal 1 to 3 kVA Models

1 to 5 kVA

INPUT VOLTAGE

90 to 140V

OUTPUT VOLTAGE

120V* ±1%

Adjustable 1 to 5%

* Selectable 110,115, 120 or 127V Output

mSVR-L MODELS - SELECTION TABLE		110V / 115V / 120V / 127V		
MODEL NUMBER		mSVR-1L	mSVR-3L	mSVR-5L
MAX. RATING	kVA / kW	1	3	5
	AMPS	8.3	25.0	41.6
INPUT VOLTAGE WINDOW		90V to 140V AC Single Phase, 2 Wire (L,N & G/E)		
OUTPUT VOLTAGE		Default 120V (adjustable 110-127V) Single Phase, 2 Wire (L,N & G/E)		
OUTPUT VOLTAGE ACCURACY		Default ±1% (Adjustable 1% to 5%)		
MAX. INPUT CURRENT		11.1 Amps	33.3 Amps	55.6 Amps
INPUT & OUTPUT CONNECTIONS		IEC 320 C13 with 2 x IEC Power Cables		Screw Terminals
PHYSICAL SIZE (W x H x D)		210 x 210 x 292	243 x 280 x 342	400 x 590 x 400
MOUNTING		On Rubber Feet		On Castors
WEIGHT - UNPACKED		11 Kg	18 Kg	56 Kg

IP54 / NEMA 3 | Option (-IP54)

mSVR Stabilisers / Conditioners presented in endurable IP54 (BS / EN 60529) / NEMA 3 free standing steel cubicles suitable for external use, or more challenging internal environments.



19" RACK MOUNTABLE | Option (-RM)

Standard mSVR Stabilisers / Conditioners (1 to 7.5kVA models) presented in 19" Rack Mountable Enclosures.



Designed for Modern Needs

mSVR SERIES AC Voltage Stabilisers and Power Line Conditioners are designed to stabilise and condition the voltage when it fluctuates, up or down.

They are essential whenever reliable power is needed or when normal operation of electrical or electronic equipment is disrupted by voltage variations, sags or spikes.

In general when suppliers of today's modern electrical and electronic equipment design their products they do so knowing that most electrical utilities around the world cannot provide or promise better than a $\pm 5\%$ output voltage accuracy of nominal and as such they design their equipment so it is able to operate efficiently within this range.

mSVR SERIES Stabilisers and Conditioners are specifically designed to meet the requirements of today's modern loads, being feature rich and low maintenance mains control solutions.

They ensure the availability of a constant voltage at a level that always meets the design requirements of the load equipment, even for the most challenging of power environments or site loads.

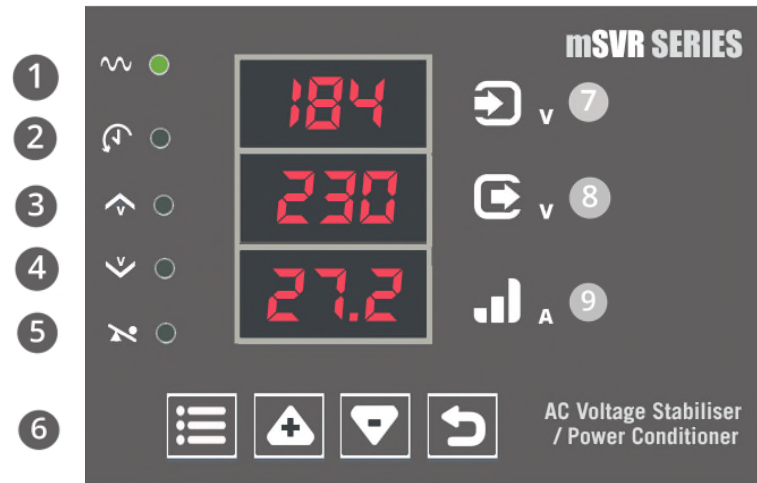
SYSTEM ADJUSTABLE PARAMETERS

Password-protected access for setting the Stabiliser/Conditioner's 7 user-definable system parameters.

User-adjustable parameters are-

1. Output Voltage
2. Output Voltage Accuracy
3. Output Under-Voltage Level
4. Output Over-Voltage Level
5. Input Overload level
6. Speed of Response
7. Time Delay

Informative Front Display Panel



LED STATUS INDICATORS & ALARMS

1	Normal	All is Working Fine
2	Time Delay	Delay in the supply of power to the output on start-up and re-engagement of the output after an irregular event. Display Metering will show a count-down to the re-engagement of the output.
3	High Voltage	Output voltage exceeds the selected over-voltage level. The output will be automatically disconnected. On fault clearance, the output will be automatically re-engaged.
4	Low Voltage	Output voltage exceeds the selected under-voltage level. The output will be automatically disconnected. On fault clearance, the output will be automatically re-engaged.
5	Overload	The actual current drawn on the input supply exceeds the models stated maximum input current rating. LED will indicate an overload condition for 60 seconds and then the output will be automatically disconnected. On fault clearance, the output will require a manual restart
6	Menu	Set system parameters and menu navigation buttons

DIGITAL METERING

7	Input Volt Meter	Voltage level of the incoming utility mains supply
8	Output Volt Meter	Output Voltage delivered by the system
9	Ammeter	Power drawn by the connected load & stabiliser

sinalda

Sinalda UK has evolved to become one of the world's leading specialist providers of AC Voltage Stabilizers and associated power line conditioning solutions.

Our Voltage Control solutions ensure our Customers – from consumers and small businesses to the largest of global organizations – can be certain that their vital systems and manufacturing processes always receive a voltage supply that is stable and clean – free from the vagaries of the mains utility supply.

Want to learn more about us and the Clients we serve?

Check us out online at <https://www.sinalda.com/sinalda/at-your-service/>



Mini SVR SERIES

AC Voltage Stabilisers and Power Line Conditioners are available from -

For Stable, Clean & Optimised AC Voltage

