

SVR-M3 SERIES

FULL AUTOMATIC STATIC VOLTAGE REGULATOR

3 Phase / 3kVA - 3200 kVA

3kVA - 3200kVA

- 100% compatibility with all three-phase devices.
- Supply operation at 65 VAC.
- High correction range (75V - 520VAC).
- 20ms voltage correction speed.
- Control and protection unit thanks to microprocessor control.
- Real static structure thanks to thyristor and SMPS technology.
- Over current protection, Phase protection, Neutral & Voltage Protection (Standard).
- Short circuit protection (Standard).
- True heat control and heat protection (Standard).
- Required cooling thanks to smart fan (Standard).
- Manual By-Pass.
- High efficiency and quiet operation.
- 3 Pieces 4x20 LCD (Standard).
- Event log display up to 2028 Events «Automatically saved in the LCD;
- All errors, Working Time, Highest and lowest voltage seen, Loaded highest and lowest current, instantaneous temperature and highest temperature seen, thyristor number, number of steps, software date and number, warranty number»



SVR-M3 SERIES

FULL AUTOMATIC STATIC VOLTAGE REGULATOR

3 Phase / 3kVA - 3200 kVA

A voltage stabilizer is a power device designed to be positioned between the mains and the user. Goal; It is to provide a voltage supply that is subject to a much lower variation ($\pm 1\%$ of nominal value) than what is guaranteed by the user's distribution system.

Static Voltage Regulators are used when the rate of correction represents a critical problem (eg computers, laboratory equipment, pumps, measuring devices, compressors, asynchronous motors, and medical instruments).

Stabilization is carried out at "TRUE RMS" voltage. The stabilizer is not affected by the load power factor ($\cos \phi$) and can operate with a load percentage ranging from 0% to 100% on each phase.

The voltage stabilizer can operate with input and output voltages different from the nominal voltage (single phase 230V - three phase 400V) (single phase 220V / 240V - three phase 380V/415V).

Such adjustments can be made at the factory or at the Customer's premises according to the instructions given in the manual.

Three-phase regulators are preferred for industries and single-phase regulators are preferred for homes. In addition, the regulator cuts the output voltage electromechanically in case of voltage drops and rises outside the adjustment range thanks to the protection provided electronically and prevents possible damages that may occur accordingly.

SVR-M3 SERIES TECHNICAL SPECIFICATIONS

Voltage regulation	Thyristor controlled
voltage stabilization	Independent phase control
Nominal voltage *	220-230-240V (L-N) 380-400-415V (440-460-480V**) (L-L)
Output voltage accuracy	$\pm 1\%$
Frequency	50Hz $\pm 5\%$ or 60Hz $\pm 5\%$
Correction Time	<3 ms.
Acceptable load change	Up to 100%
Acceptable load imbalance	100%
Acceptable overload	150% for 1 minute (at nominal input voltage)
Color	RAL 7035
Protection class	IP21
Use interface	3ad.(4x20) LCD Multilingual touch panel Input Voltage Output Load Percentage, Regulator Status and Fault Information, Overload Warning, Over Temperature Warning, Input Faulty Warning, Output Faulty Warning, Max. and Min. Input Voltage and Current, Countdown Time, Multi Display
Protection	Over current protection, Phase protection, Neutral & Voltage Protection, Short circuit protection (Standard).
Cooling	Intelligent fan system
Operating temperature range	-20/+40°C
Storage temperature	-25/+60°C
Maximum relative humidity	<95% (non-condensing)
Working Height	<3.000 Meter
Input Connection Phase Number	3+N Phase
Continuous Working Time at Full Load 0... 105%	Continuous 7/24
Correction Speed = Seconds / Frequency	Frequency = 50 = 20ms / Frequency = 60 = 16.66ms



SVR-M1 SERIES

FULL AUTOMATIC STATIC VOLTAGE REGULATOR

1 Phase / 5kVA - 60 kVA



Technical Specifications:

- 100% compatibility with all single phase devices
- High correction range (90V - 450VAC)
- 20ms voltage correction
- Real static structure thanks to thyristor and SMPS technology.
- Over current protection, Phase protection, Neutral & Voltage Protection (Standard).
- Short circuit protection (Standard).
- Frequency protection (Standard)
- True heat control and heat protection (Standard)
- Required cooling thanks to smart fan (Standard)
- Manual By-Pass and Automatic By-Pass
- High efficiency and completely silent operation
- 1 Piece 4x20 LCD (Standard)
- Automatically saved in the LCD; All errors, Operating Time, Highest and lowest voltage seen, Highest current loaded, instantaneous temperature and highest temperature seen, software date and number, warranty number
- Quality ergonomic structure, small dimensions, easy transportation,

SVR-M1 Series single phase Static Regulators are produced with advanced technology and have high regulation speed, full protection system. It provides safe and stable output voltage in highly sensitive devices where mains voltage is unstable. Its biggest advantage over other regulators is its completely silent and high speed response against sudden voltage fluctuations. It is produced in a capacity that can operate smoothly even at full load and in cases where the voltage changes excessively. It is long-lasting and does not require maintenance since it contains no moving parts except the cooling fan.



All Güven-İş voltage regulators are designed and manufactured in accordance with the European Directives regarding the CE mark ("LVD" Low Voltage and Electromagnetic Compatibility Directives). GÜVEN-İŞ products are produced from suitable quality components and the production process is regularly monitored in accordance with ISO 9001: 2015 standards with the quality control plans adopted by the company.

SVR-M1 SERIES

FULL AUTOMATIC STATIC VOLTAGE REGULATOR

1 Phase / 5kVA - 60 kVA

SVR-M1 SERIES TECHNICAL SPECIFICATIONS	
Voltage regulation	Thyristor controlled
Nominal voltage *	220-230-240V (L-N)
Output voltage accuracy	±1%
Frequency	50Hz ±5% or 60Hz ±5%
Correction Time	<3 ms.
Acceptable load change	Up to 100%
Acceptable load imbalance	100%
Acceptable overload	150% for 1 minute (at nominal input voltage)
Color	RAL 7035
Protection class	IP21
User interface	1pcs.(4x20) LCD Multilingual touch panel Input Voltage Output Load Percentage, Regulator Status and Fault Information, Overload Warning, Over Temperature Warning, Input Faulty Warning, Output Faulty Warning, Max. and Min. Input Voltage and Current, Countdown Time, Multi Display
Protection	Over Current, Phase, Voltage & Neutral Protection (Standard)
Cooling	Intelligent fan system
Operating temperature range	-20/+40°C
Storage temperature	-25/+60°C
Maximum relative humidity	<95% (non-condensing)
Working Height	<3.000 Meter
Input cable connection type	1 PHASE / Input, output, general neutral +Ground
Continuous Working Time at Full Load 0...105%	Continuous7/24
Correction Speed = Seconds / Frequency	Frequency = 50 = 20ms / Frequency = 60 = 16.66ms



DVR-M3H FATİH SERIES

FULL AUTOMATIC SERVO DYNAMIC VOLTAGE REGULATOR

200kVA - 2500kVA

GÜVENİŞ Voltage regulators are the machines that provide the constant voltage that you need by correcting the falling and rising of the mains voltage in the internal structure.

Our DVR-M3H voltage regulators operate fully automatically for voltage regulation without any user intervention.

Once the regulators are switched on, your mains voltage is continuously measured and the necessary up / down operations are performed automatically, giving your system the constant voltage required for a healthy operation.

Servo regulators consist of variac, servo motor which controls variac, electronic multimeter card which controls this motor and booster transformer.

The start torque can quickly correct even very small voltage changes thanks to the high DC servo motor and the control system that can respond quickly to voltage changes.

When the regulation is completed, the servo motor is de-energized with the aid of the electronic braking circuit. It has high efficiency.

Pollution, parasitic, etc. at output voltage. do not corrupt.

You can safely use any area with regular electricity needs without any problems.

The DVR-M3H Regulator provides the following:

- Protection of the user from negative voltages.
- Protection of the user and the device from excessive current.
- Undisturbed pure sinus voltage regulation.
- Long-term overload protection and short-term protection.
- AC voltage balancing with extremely high accuracy.
- Run smoothly on all loads from 0% to 100%.
- Manual transfer to bypass regime without regulating.
- Display all values against the probabilities in the bypass regime.
- Record mains input voltage limits and load current values.
- Static, not gradual, dynamically correct output voltage too quickly without user notice.
- When protections are activated, record the number of protection trips and the reason for each parameter separately.
- Generation as standard is $\pm 0.4\%$ (379.87V - 382.6V) stable when the input voltage is within the range of 112.6V 537V.



DVR-M3H FATIH SERIES

FULL AUTOMATIC SERVO DYNAMIC VOLTAGE REGULATOR

200kVA - 2500kVA



TECHNICAL SPECIFICATIONS

MODEL: FATIH SERIES DVR-M3H	M3H-200	M3H-250	M3H-300	M3H-400	M3H-500	M3H-600	M3H-800	M3H-1000	M3H-1250	M3H-1600	M3H-2000	M3H-2500
Power kVA	200	250	300	400	500	600	800	1000	1250	1600	2000	2500
INPUT												
Input Voltage Correction Range	190-415 / 275-450 / 310/485 VAC											
Input Voltage Operating Range	>155v...490v<											
Operating Frequency	>47.....64 <											
Input Protection	Overcurrent. Low and High Voltage Protection (Optional)											
OUTPUT												
Output Voltage	>380v...415v< +/- %0,4											
Overload	10 SECOND % 200 load											
Correction Speed / Recovery Speed	- 90 Volt / S (150-250VAC the range)											
Output waveform	Pure Sine											
Output protection	Overcurrent. Low and High Voltage Protection (Optional)											
Output protection at low voltage	337V on - 303V off											
Output protection at high voltage	424v on ... 433 off											
OPERATING PRINCIPLES												
	Servo Motor - Microprocessor - Dynamic Servo											
GENERAL												
Cooling	Natural Air /Smart fan system (Thermostat) (optional)											
Measurement and imaging	Input and Output Voltage Led Display / Input, Output Voltage and Ampere Led Display MULTIMETER											
Continuous operating time at full load	0..105%.											
Continuous load <105%	< 7 /24											
Efficiency under load.	>96%											
Mechanical By-pass	Manual control network / 1-0-2 Pako Switch / Remote Switch / Lock key On / Off											
Protection Class	IP20 and Other Options											
ENVIRONMENTAL												
Storage temperature	O> -25 °C <+ 60°C											
Ambient temperature +25 ° C Relative Humidity.	< 96 %											
Operating height	<3000 м 3 km											
Protection Class	IP 21											

DVR-M3 GALATA SERIES

FULL AUTOMATIC SERVO DYNAMIC VOLTAGE REGULATOR

60kVA - 150kVA

GÜVENİŞ Voltage regulators are the machines that provide the constant voltage that you need by correcting the falling and rising of the mains voltage in the internal structure. Our DVR-M3 voltage regulators operate fully automatically for voltage regulation without any user intervention.

Once the regulators are switched on, your mains voltage is continuously measured and the necessary up / down operations are performed automatically, giving your system the constant voltage required for a healthy operation.

Servo regulators consist of variac, servo motor which controls variac, electronic multimeter card which controls this motor and booster transformer.

The start torque can quickly correct even very small voltage changes thanks to the high DC servo motor and the control system that can respond quickly to voltage changes.

When the regulation is completed, the servo motor is de-energized with the aid of the electronic braking circuit. It has high efficiency.

Pollution, parasitic, etc. at output voltage. do not corrupt.

You can safely use any area with regular electricity needs without any problems.

The DVR-M3 Regulator provides the following:

- Protection of the user from negative voltages.
- Protection of the user and the device from excessive current.
- Undisturbed pure sinus voltage regulation.
- Long-term overload protection and short-term protection.
- AC voltage balancing with extremely high accuracy.
- Run smoothly on all loads from 0% to 100%.
- Manual transfer to bypass regime without regulating.
- Display all values against the probabilities in the bypass regime.
- Record mains input voltage limits and load current values.
- Static, not gradual, dynamically correct output voltage too quickly without user notice.
- When protections are activated, record the number of protection trips and the reason for each parameter separately.
- Generation as standard is $\pm 0.4\%$ (379.87V - 382.6V) stable when the input voltage is within the range of 112.6V 537V.



DVR-M3 GALATA SERIES

FULL AUTOMATIC SERVO DYNAMIC VOLTAGE REGULATOR

60kVA - 150kVA



TECHNICAL SPECIFICATIONS

MODEL: GALATA SERIES DVR-M3	M3-60	M3-75	M3-100	M3-120	M3-150
Power kVA	60	75	100	120	150
INPUT					
Input Voltage Correction Range	190-415 / 275-450 / 310/485 VAC				
Input Voltage Operating Range	>155v...490v<				
Operating Frequency	>47.....64 <				
Input Protection	Overcurrent. Low and High Voltage Protection (Optional)				
OUTPUT					
Output Voltage	>380v...415v< +/- %0,4				
Overload	10 SECOND % 200 load				
Correction Speed / Recovery Speed	- 90 Volt / S (150-250VAC the range)				
Output waveform	Pure Sine				
Output protection	Overcurrent. Low and High Voltage Protection (Optional)				
Output protection at low voltage	337V on - 303V off				
Output protection at high voltage	424v on ... 433 off				
OPERATING PRINCIPLES					
	Servo Motor - Microprocessor - Dynamic Servo				
GENERAL					
Cooling	Natural Air /Smart fan system (Thermostat) (optional)				
Measurement and imaging	Input and Output Voltage Led Display / Input, Output Voltage and Ampere Led Display MULTIMETER				
Continuous operating time at full load	0..105%.				
Continuous load <105%	< 7 /24				
Efficiency under load.	>96%				
Mechanical By-pass	Manual control network / 1-0-2 Pako Switch / Remote Switch / Lock key On / Off				
Protection Class	IP20 and Other Options				
ENVIRONMENTAL					
Storage temperature	O> -25 °C <+ 60°C				
Ambient temperature +25 ° C Relative Humidity.	< 96 %				
Operating height	<3000 m 3 km				
Protection Class	IP 21				

DVR-M3 SERIES

FULL AUTOMATIC SERVO DYNAMIC VOLTAGE REGULATOR
3kVA - 150kVA

The DVR-M3 Regulator provides the following:

- Protection of the user from negative voltages.
- Protection of the user and the device from excessive current.
- Undisturbed pure sinus voltage regulation.
- Long-term overload protection and short-term protection.
- AC voltage balancing with extremely high accuracy.
- Run smoothly on all loads from 0% to 100%.
- Manual transfer to bypass regime without regulating.
- Display all values against the probabilities in the bypass regime.
- Record mains input voltage limits and load current values.
- Static, not gradual, dynamically correct output voltage too quickly without user notice.
- When protections are activated, record the number of protection trips and the reason for each parameter separately.
- Generation as standard is $\pm 0.4\%$ (379.87V - 382.6V) stable when the input voltage is within the range of 112.6V 537V.



TECHNICAL SPECIFICATIONS

MODEL: DVR-M3	M3-3	M3-6	M1-10,5	M3-15	M3-22.5	M3-30	M3-45	M3-60	M3-75	M3-100	M3-120	M3-150
Power kVA	3	6	10.5	15	22.5	30	45	60	75	100	120	150
INPUT												
Input Voltage Correction Range	190-415 / 275-450/ 310/485 VAC											
Input Voltage Operating Range	>155v...490v<											
Operating Frequency	>47.....64 <											
Input Protection	Overcurrent. Low and High Voltage Protection (Optional)											
OUTPUT												
Output voltage	>380v...415v< +/- %0,4											
Over load	10 SECOND % 200 load											
Correction Speed / Recovery Speed	- 90 Volt / S (150-250VAC the range)											
Output waveform	Pure Sine											
Output protection	Overcurrent. Low and High Voltage Protection (Optional)											
Output protection at low voltage	337V on - 303V off											
Output protection at high voltage	424v on ... 433 off											
OPERATING PRINCIPLES												
	Servo Motor - Microprocessor - Dynamic Servo											
GENERAL												
Cooling	Natural Air /fan (Optional)											
Measurement and Display	Input and Output Voltage Led Display / Input, Output Voltage and Ampere Led Display MULTIMETER											
Continuous operating time at full load	0..105%.											
Continuous load <105%	< 7 /24											
Efficiency under load.	>98%											
Mechanical By-pass	Manual control network / 1-0-2 Pako Switch / Remote Switch / Lock key On / Off											
Protection Class	IP20 and Other Options											
ENVIRONMENTAL												
Operating ambient temperature	0> -40 °C <+ 55°C											
Storage temperature	0> -25 °C <+ 60°C											
Ambient temperature +25 °C Relative Humidity.	< 96 %											
Operating height	<3000 m 3 km											
Protection Class	IP 21											
Acoustic Level	< 50 dB (1m)											

With the user-friendly Wi-Fi Module, which provides remote access, different language options, you can determine, access, control, or modify many operating parameters of the voltage regulator - you do not have to go to the Voltage regulator for all these operations.

MODEL: DVR-M1	M1-1	M1-2	M1-3.5	M1-5	M1-7.5	M1-10	M1-15	M1-20	M1-25	M1-30	M1-40	M1-50
Power kVA	1	2	3.5	5	7.5	10	15	20	25	30	40	50
INPUT												
Input Voltage Correction Range	110-240 / 150-250 / 180-280 VAC											
Input Voltage Operating Range	>90v...285v<											
Operating Frequency	>47.....64 <											
Input Protection	Overcurrent. Low and High Voltage Protection											
OUTPUT												
Output Voltage	>200v...240v< +/- %0,4											
Overload	10 SECOND % 200 load											
Correction Speed / Recovery Speed	- 90 Volt / S (150-250VAC the range)											
Output waveform	Pure Sine											
Output protection	Overcurrent. Low and High Voltage Protection (Optional)											
Output protection at low voltage	195V ON - 175V off											
Output protection at high voltage	245v on ... 250 off											
OPERATING PRINCIPLES												
	Servo Motor - Microprocessor - Dynamic Servo											
GENERAL												
Cooling	Natural Air/ Smart fan system (Thermostat) (optional)											
Measurement and imaging	Input and Output Voltage Led Display / Input, Output Voltage and Ampere Led Display MULTIMETER											
Continuous operating time at full load	0..105%.											
Continuous load <105%	< 7 /24											
Efficiency under load.	>96%											
Mechanical By-pass	Manual control network / 1-0-2 Pako Switch / Remote Switch / Lock key On / Off											
Protection Class	IP20 and Other Options											
Control mode	Control Modul Via WI-FI Network											
ENVIRONMENTAL												
Storage temperature	O> -25 °C <+ 60°C											
Ambient temperature +25 °C Relative Humidity.	< 96 %											
Operating height	<3000 m 3 km											
Protection Class	IP 21											

DVR-M1 SERIES

FULL AUTOMATIC SERVO DYNAMIC VOLTAGE REGULATOR
SINGLE PHASE 1kVA - 50 kVA



SERVO VOLTAGE STABILIZER

TECHNICAL SPECIFICATIONS

MODEL: DVR-M1	M1-1	M1-2	M1-3.5	M1-5	M1-7.5	M1-10	M1-15	M1-20	M1-25	M1-30	M1-40	M1-50
Power kVA	1	2	3.5	5	7.5	10	15	20	25	30	40	50
INPUT												
Input Voltage Correction Range	110-240 / 150-250 / 180-280 VAC											
Input Voltage Operating Range	>90v...285v<											
Operating Frequency	>47.....64 <											
Input Protection	Overcurrent. Low and High Voltage Protection											
OUTPUT												
Output Voltage	>200v...240v< +/- %0,4											
Overload	10 SECOND % 200 load											
Correction Speed / Recovery Speed	- 90 Volt / S (150-250VAC the range)											
Output waveform	Pure Sine											
Output protection	Overcurrent. Low and High Voltage Protection (Optional)											
Output protection at low voltage	195V ON - 175V off											
Output protection at high voltage	245v on ... 250 off											
OPERATING PRINCIPLES												
	Servo Motor - Microprocessor - Dynamic Servo											
GENERAL												
Cooling	Natural Air/ Smart fan system (Thermostat) (optional)											
Measurement and imaging	Input and Output Voltage Led Display / Input, Output Voltage and Ampere Led Display MULTIMETER											
Continuous operating time at full load	0..105%.											
Continuous load <105%	< 7 /24											
Efficiency under load.	>96%											
Mechanical By-pass	Manual control network / 1-0-2 Pako Switch / Remote Switch / Lock key On / Off											
Protection Class	IP20 and Other Options											
Control mode	Control Modul Via WI-FI Network											
ENVIRONMENTAL												
Storage temperature	O> -25 °C <+ 60°C											
Ambient temperature +25 ° C Relative Humidity.	< 96 %											
Operating height	<3000 m 3 km											
Protection Class	IP 21											

SVR-G-HOME SERIES

FULL AUTOMATIC STATIC VOLTAGE REGULATOR 1 PHASE / 3kVA - 10 kVA

- 400% instant load capacity
- 500v/s Adjustment speed
- 20ms Response time
- 149 / 250V Regulation field
- EMI Filter on Output
- 16pcs Static steps
- Easy to use LCD display
- Control via Wi-Fi Connection (Optional)
- Ability to work under any load.
- 7/24 operation at continuous load
- High efficiency
- Compact design, easy installation and simple operation
- Eco-friendly full guarantee in accordance with ISO 9001, CE, standards
- 7/24 technical support and customer service

Our SVR-G-HOME series static voltage regulators, which are designed in accordance with the standards of electrical appliances, have been designed as an AC mains voltage compensator with the ergonomic design to compensate the voltage from the mains and bring it to a nominal value of 220 volts. It is a single-phase electronic device designed to provide balanced AC voltage for any consumer. Unlimited, the device works with all kinds of power-appropriate load. Home, office equipment, power tools, electric motors, air conditioners, refrigerators, glass machines etc.

The design of the device is suitable for use on a vertical table or hanging on a wall. There is a control panel on the front cover of the device to monitor the parameters. 3 buttons, 12 LEDs and 1pcs 4x20 LCD display are used in the control panel. There are two circuit breakers, one 16A socket on the right side, and a cooling fan grill on the left side. 4 rubber feet are attached to the bottom of the device for comfortable use on the table. Two mounting holes on the back cover allow hanging on the wall. In order to avoid any problem in the devices with neutral sensitivity, the "neutral transit" or "common neutral" scheme is used. To remove interference from the mains, a EMI filter is used at the output of the device. The terminal socket is designed on the back cover of the device for connecting input output and ground power lines. Thanks to 16 static steps, the device makes the necessary voltage adjustment. When the temperature inside the device reaches + 55 ° C, the cooling fan switches on automatically.



TECHNICAL SPECIFICATIONS

MODEL: SVR-G-HOME	3KVA	5KVA	7,5KVA	10KVA
Power KVA	3	5	7,5	10
Power kW	2,5	4	6	8
INPUT PARAMETERS				
Cable Connection Type	terminal Connectors (4x12mm)			
Continuous load <105%	< 7 /24			
Input Safe Voltage Range	> 0.....340V <			
Input Operating Voltage Range of Power Supply	> 75V.....305V <			
Correction voltage range	INPUT: 149V.....261V / OUTPUT:215,2V.....224,8V			
Maximum continuous input current	16A (FUSE 25A)	27A (FUSE 40A)	38A (FUSE 50A)	52A (FUSE 63A)
Maximum instantaneous input current. (motor starting current).The starting currents of the motors are 5-10 times higher than the current consumption of the normal operating mode in the refrigerator in the air conditioner	44A	76A	112A	160A
Permissible nonlinear load	400 % T-RMS=100%			
Operating Frequency	50Hz ± 2%			
Acoustic Noise Level	< 32 dB (1m)	< 34 dB (1m)	< 36 dB (1m)	< 38 dB (1m)
Efficiency at 50% load	>95%	>96%	>97%	>98%
Total heat generation under full load	0,032kW	0,064kW	0,094kW	0,132kW
OUTPUT PARAMETERS				
Voltage response time	20MS			
Rated static voltage at output at installation Output 220V + 2.2%	215,5V.....224,8V			
Load change range	0 - 400%			
Continuous output load current, with 220V output voltage	> 12A	> 19A	> 28A	> 36A
Ambient temperature of the fan with> 50% load> 30 ° C	Temperature inside the device >+55°C			
Screen 1.	20 x 4 LCD Display			
Screen 2.	12 Ad. LED			
OPERATING ENVIRONMENT				
Operating ambient temperature	-20°C +45°C			
Non-condensing humidity	< 98 %			
Maximum operating height (above sea level)	2000m			
Protection class	IP 21			
DIMENSIONS				

SVR-INDUSTRIAL SERIES

FULL AUTOMATIC STATIC VOLTAGE REGULATOR

1 PHASE / 1kVA

Largest Operating Range 65V-300V



- Wide range regulation field 65V-300V
- 400% instant load capacity
- Setting speed of 500V / Sec
- Reaction rate of 20ms
- EMI Filter on Output
- 16stp. Static step
- Easy-to-use LCD display
- Ability to work in any kind of load.
- 7/24 operating at continuous load
- High efficiency
- Compact design, easy installation and simple operation
- Environmentally friendly ISO 9001, CE, full warranty
- 24/7 technical support and customer service

TECHNICAL SPECIFICATIONS

MODEL: SVR-INDUSTRIAL	1KVA
POWER KVA	1
INPUT PARAMETERS	
Cable Connection Type	3x2,5 plug cable
Continuous load <105%	< 7 /24
Input Safe Voltage Range	> 0.....320V <
Input Operating Voltage Range of Power Supply	> 65V.....300V <
Correction voltage range	Input:88V.....300V / Output:220V +-5%
Maximum continuous input current	12A (FUSE 16A)
Maximum instantaneous input current. (motor starting current) The starting currents of the motors are 5-10 times higher than the current consumption of the normal operating mode in the refrigerator in the air conditioner.	36A
Allowable nonlinear load	400 % T-RMS=100%
Operating Frequency	50Hz ± 5%
Acoustic Noise Level	< 32 dB (1m)
Efficiency at 50% load	> 95%
Total heat produced under full load	0,032kW
OUTPUT PARAMETERS	
Voltage response time	20MS
Rated static voltage at output, output 220V + 2.2% at installation	208V.....232V
Load change interval	0 - 300%
Continuous output load current, with 220V output voltage	> 12A
Screen 1.	20 x 4 LCD Display
Screen 2.	12pcs. LED
OPERATING ENVIRONMENT	
Operating ing ambient temperature	-20°C +55°C
Moisture without condensation	< 98 %
Maximum Operating height (above sea level)	2000m
Protection class	IP 21

VRK-M3 SERIE

THREE PHASE MOTORIZED VARIABLE TRANSFORMERS

It allows to set the desired voltage automatically by manual or servo motor in the setting range determined according to customer request. The variac, which is contained therein, is formed by winding a single envelope enamelled copper wire on toroidal sheet. The variac provides all the load that provides power and voltage regulation. Using the MSC-7203 multimeter mounted on the variac box, the input voltage, the output voltage and the drawn amperage can be seen instantaneously. In addition, the MSC-7203 multimeter automatically records the highest and lowest values of the instantaneous values and can reset it as desired.

- Recording the highest and lowest values seen
- Resetting information
- Input-output voltage and ampere calibration
- Wide voltage range
- Terminal or socket outlet
- Circuit breaker for protection
- High efficiency silent operation
- Manual or automatic adjustment
- Quality, ergonomic structure, easy carrying apparatus
- Production in ISO 9001: 2008 and CE Standards.



VRK-M1 SERIE

FULL AUTOMATIC SERVO DYNAMIC VOLTAGE REGULATOR

60kVA - 150kVA

It allows to set the desired voltage automatically by manual or servo motor in the setting range determined according to customer request.

The variac, which is contained therein, is formed by winding a single envelope enamelled copper wire on toroidal sheet.

The variac provides all the load that provides power and voltage regulation. Using the MSC-7203 multimeter mounted on the variac box, the input voltage, the output voltage and the drawn amperage can be seen instantaneously. In addition, the MSC-7203 multimeter automatically records the highest and lowest values of the instantaneous values and can reset it as desired.

Recording the highest and lowest values seen

Resetting information / Input-output voltage and ampere calibration

Wide voltage range / Terminal or socket outlet

Circuit breaker for protection / High efficiency silent operation

Manual or automatic adjustment / Quality, ergonomic structure, easy carrying apparatus

Production in ISO 9001: 2008 and CE Standards.



VRK-P1 SERIE

PANEL TYPE VARIABLE TRANSFORMERS

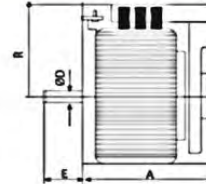
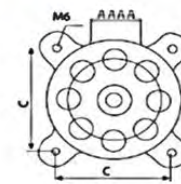
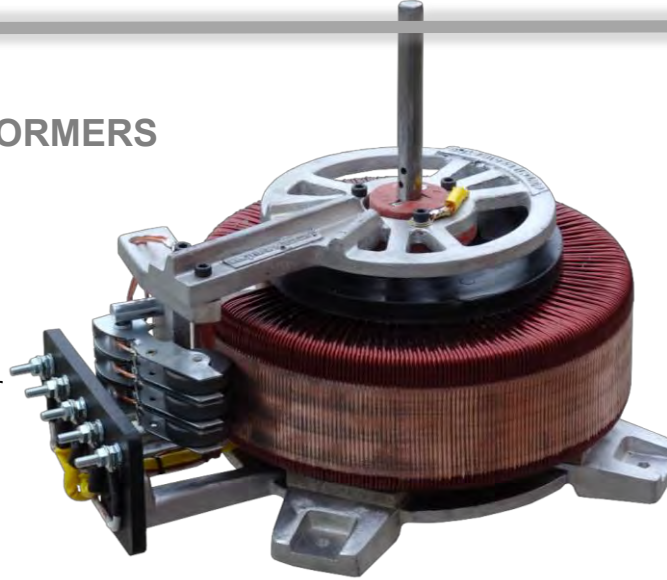
What is Variac ?

Variac is an autotransformer with adjustable voltage. It has a coal wheel (a sliding brush in simple variants) that allows you to change the voltage from zero to maximum without any problem.

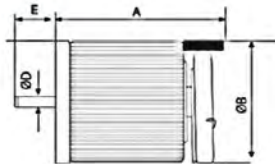
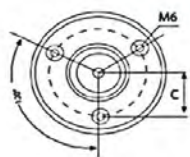
The variac serves to provide the desired electrical energy to the laboratory facilities and to compensate for the voltage and other needs of the network.

Variac is an indispensable device when installing and testing electrical devices.

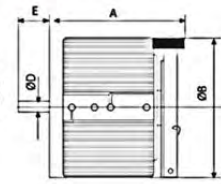
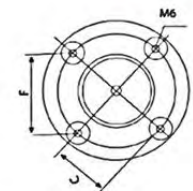
The first-class manufacturing is made of a silicon sheet core and varieties of electrolytic copper are produced as a special group according to the customer's request.



Size Power KVA	220V Amp	250V Amp	A	C	ØD	E	R	F	Kg
6.50 KVA	29	26	180	215	15	80	180	M6	34,00
7.50 KVA	34	30	190	215	15	80	180	M6	37,50
10.00 KVA	45	40	200	215	15	80	180	M6	48,00
12.50 KVA	56	50	210	260	15	80	210	M6	65,00
15.00 KVA	68	60	230	260	15	80	210	M6	69,00



Tip/Size Güç/Power KVA	220V Akım- Amp	250V Akım- Amp	A	ØB	C	ØD	E	F	Kg
1,00 KVA	4.5	4	135	150	20	10	30	M6	7,20
1,50 KVA	6.8	6	135	150	20	10	30	M6	11,20
2,00 KVA	9.0	8	155	170	50	10	30	M6	12,30
2,50 KVA	11.3	10	155	170	50	10	30	M6	14,80



Size Power KVA	220V Amp	250V Amp	A	ØB	C	ØD	E	F	Kg
3.50 KVA	15.9	14	160	205	85	10	55	120	17,50
4.50 KVA	20.4	18	185	205	85	10	55	120	21,00
5,00 KVA	22.70	20	185	205	85	10	55	120	23,00

GVN-RLB SERIES RESISTIVE LOAD BANK

Load bank; are devices that develop an electrical charge, apply the charge to an electrical power source, and convert or distribute the resulting power output of the source, connect it as a charge to the electrical power source and consume electrical power (active and reactive). Such devices often contain active resistance inside

Unlike loads with variability in terms of electrical parameters, load banks provide the opportunity to test pre-determined and controllable loading conditions. Said charges are used to test the electrical output of the power supply and to verify its functionality without damaging the device.

In power plants, substations, telecommunication centers, you should check the batteries regularly to prevent them from suddenly running out of battery life. Resistive load banks are often used in industry to determine the status of a rechargeable battery. It is important to check the batteries at regular intervals, and the only reliable way to measure capacity is to run a battery discharge test. While doing this test, the condition of the battery is evaluated according to the data. The most convenient way to discharge the battery is to use an active load bank.

Usage areas;

- Generators
- Uninterruptible Power Systems (UPS)
- Inverters
- Rectifier
- Battery systems
- Engines (system startup)
- Frequency converters
- Electric panels and systems
- Temperature control / control server simulator
- Air conditioning systems and Chillers
- Testing of feeding systems of telecommunication devices
- Power and Cooling Data Center
- Loading tests
- Energy production facilities
- Mine fields
- Military applications
- Data centers

The load bank contains load elements with the necessary protection, control, measurement and accessory devices for operation. Load banks are the best way to increase, prove and verify real-life demands in critical power systems. Impact-resistant long-lasting metal construction (galvanized, electrostatic powder coated pe ep / pe)

Stainless resistance resistance coil
Insulation materials according to temperature values
Heat resistant connectors, cables, terminal blocks
Cooling digital or manual thermostat with smart fan system
Fuse and circuit breakers
Indicator input output voltage, amps, frequency (ops.)



ATS – 4G

AUTOMATIC TRANSFER SWITCH «ATS-04G»

Electrical faults in the area can cause problems that can not be compensated in sensitive areas such as hospitals or data centers or in industrial production systems. In such cases, uninterrupted power has the highest priority for the protection of human life and the continuity of operations.

Automatic transfer switch "ATS-04G", in the event of a failure of the active line, the controller is designed to automatically switch the load on the appropriate line by selecting one of the 4 lines. The module has 4 different input lines, an output line and a common neutral connection terminal. The phase value of the alternating electric current in the incoming lines is irrelevant. In other words, if 120 ° of phase does not exist, the device will operate normally. As long as the neutral line is properly connected.



If the user's preferred line is not active first (if "0" in the menu);

In case of distortion of the device, even when it is activated, the microprocessor automatically searches for the most suitable line and transfers the load on this line.

If the user's favorite line is active (if "1" in the menu)

In case of distortion of the main line, the microprocessor will automatically find the most appropriate line and transfer the load on this line.

It mainly transfers the load to the actual line even if the preferred base state is normalized.

Before transferring electrical energy, the unit will take into account the time interval defined in the menu.

The device can transfer a power supply 24V 220V 63A.



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GÜVENİŞ TEKNOLOJİ ELEKTRONİK SİSTEMLER

SANAYİ VE TİCARET LİMİTED ŞİRKETİ

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