

# GVN AVR DVR-M1 Wi-Fi SERIES

FULL AUTOMATIC SERVO DYNAMIC  
VOLTAGE REGULATOR SINGLE PHASE  
CONTROLLED BY Wi-Fi  
1kVA - 50 kVA

## NEW GENERATION TECHNOLOGY

First and only Servo Voltage Regulator  
controlled via Wi-Fi in the world.

Along with the developing technology, GÜVEN-İŞ designed a new product which is compatible with the user and makes life easier for the user. The Wi-Fi Network feature is absolutely the biggest advantage of this device in front of the similar devices.



## SOMETIMES ONLY WANT IT'S SUFFICIENT.

GÜVEN-İŞ Engineers designed the Voltage regulators controlled via Wi-Fi series in order to keep their user needs first.

With the Wi-Fi module on the Voltage Regulator, many parameters of the voltage regulator can be monitored, controlled or modified by connecting to a Wi-Fi network using any browser on a computer, tablet, or phone.



Enerji



Endüstri



Medikal



İnşaat



Bilgi İstem



Telekom



Ulaşım



Finans

# GVN AVR DVR-M1 Wi-Fi SERIES

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-M1 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-M1 Wi-Fi Regulator provides the following:**

- Undisturbed pure sinus voltage regulation.
- AC voltage balancing with extremely high accuracy.
- Producing intensely, keeping the output voltage stable within  $\pm 0.4\%$  (219.2v - 220.8v) while the input voltage is between 65v ... 310v.
- Run smoothly on all loads from 0% to 100%.
- Long-term overload protection and short-term protection.
- When protections are activated, record the number of protection trips and the reason for each parameter separately.
- Record mains input voltage limits and load current values.
- Protection of the user from negative voltages.
- Protection of the user and the device from excessive current.
- Static, not gradual, dynamically correct output voltage too quickly without user notice.
- Display all values against the probabilities in the bypass regime.
- Manual transfer to bypass regime without regulating.
- Control system by **Wi-Fi** network.

## SAFE TECHNOLOGY

User Friendly WI-FI Controlled Servo  
Voltage Regulator  
Control Panel easy to use

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.

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## 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
<b>INPUT</b>												
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											
<b>OUTPUT</b>												
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											
<b>OPERATING PRINCIPLES</b>												
	Servo Motor - Microprocessor - Dynamic Servo											
<b>GENERAL</b>												
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 <b>WI-FI</b> Network											
<b>ENVIRONMENTAL</b>												
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)											
<b>DIMENSIONS</b>												
WxDxH (cm)	17,5 x 30 x 40		23 X 54 X 39			27X54X39		50X56X86		60X64X86		
Optional size	-		45 X 40 X 27			55X40X29		-		-		
Weight (kg)	18	23	30	35	45	52	65	90	110	150	180	200