

# GVN AVR DVR-M3H SERIES

## FULL AUTOMATIC SERVO DYNAMIC VOLTAGE REGULATOR 200 kVA -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.



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## TECHNICAL SPECIFICATIONS

MODEL: 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
<b>INPUT</b>												
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)											
<b>OUTPUT</b>												
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											
<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											
<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)											
Instruments												
<b>DIMENSIONS</b>												
WxDxH (cm) 3 Pieces	(52x3)156x85x145			(60x3)180x125x160			(80x3)240x180x174			(140x3)420x220x192 (120x3)360x180x265		
Weight (kg)	900	1200	1350	1800	2000	2800	3800	4800	5750	6750	8000	10500

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REGULATOR

