



HOME/OFFICE



DATA CENTER



MEDICAL



INDUSTRY



TRANSPORTATION



EMERGENCY

Automatic Voltage Regulator

Single Phase 2 - 50 kVA & Three Phase 6 - 1000kVA

- Servo Motor Controlled Technology
- Independent Phase Voltage Regulation (@ Three phase version)
- Reliable Stabilization with Microprocessor controlled Digital Management Unit
- High efficiency at all Powers
- Short circuit protection
- Built-in Manual by-pass switch
- Fast response for fluctuations
- Ability to work with non-linear loads
- Digital Display Panel with Voltage, Frequency and Current information
- High - low voltage & Phase missing protections with Breaker module
- Easy installation and operation



MODEL	Single phase	Three phase
Power (kVA)	2-50 kVA	6-1000 kVA
INPUT		
Nominal Voltage	220/230/240 VAC 1Ph + N	380/400/415 VAC 3Ph + N
Voltage Range	175-265 VAC Ph/N	275-450 VAC Ph/Ph
Frequency	50 / 60 Hz	
OUTPUT		
Phase Number	1Ph + N + PE	3Ph + N + PE
Nominal Voltage	220/230/240 VAC (Ph/N)(Adjustable from front panel)	
Output Voltage Tolerance	2% (Adjustable from Menu)	
Frequency Speed	Frequency @ 50Hz: 20ms -/ Frequency @60Hz: 50 ms	
Output delay time adjustment	2 sec to 10 sec (Adjustable from Menu)	
Overload	Running 10sec at 200% Load	
Efficiency	Up to 97% at full load	
GENERAL PARAMETERS		
Mechanic By-Pass	With Manual Switch	
Cooling System	Natural Cooling at 1Ph AVR FAN Cooling at 3Ph AVR	
Input voltage / Output voltage Display	TRUE RMS	
Display Panel	7 Segment Display	
ENVIRONMENT		
Operating Temperature	0°C to +40°C.	
Storage Temperature	-10°C to +50°C.	
Humidity	0 - 90% (non-condensing)	
Altitude	<1000 Meter	
Noise Level (from 1m distance)	<50 dB	
Protection Class	IP20	

Automatic Voltage Regulator

TECHNICAL SPECIFICATIONS

MODEL	POWER (kVA)	INPUT			OUTPUT			Correction Speed V/Sn	Efficiency(%)	
		Voltage	Voltage Tolerance	Current Max.	Voltage	Voltage Tolerance	Current Max.			
SINGLE PHASE	AVR-0201	2	220/230/240 Vac 1 Phase	175-265 Vac Phase-Neutral	7 A	220/230/240 Vac 1 Phase	±%2	6 A	80	≥95
	AVR-0351	3,5			13 A			11 A		
	AVR-0501	5			18 A			14 A		
	AVR-0751	7,5			27 A			21 A	40	≥96
	AVR-1001	10			36 A			28 A		
	AVR-1501	15			55 A			44 A		
	AVR-2001	20			73 A			58 A		
	AVR-2501	25			90 A			72 A	97	
	AVR-3001	30			109 A			87 A		
	AVR-4001	40			145 A			115 A		
	AVR-5001	50			180 A			144 A		
THREE PHASE	AVR-0603	6	380/400/415 Vac 3 Phase	275-450 Vac Phase - Phase	7 A	380/400/415 Vac 3 Phase	±%2	5 A		80
AVR-1053	10,5	13 A			10 A					
AVR-1503	15	18 A			13 A					
AVR-2253	22,5	27 A			20 A			40	≥96	
AVR-3003	30	36 A			26 A					
AVR-4503	45	55 A			40 A					
AVR-6003	60	72 A			52 A					
AVR-7503	75	91 A			66 A			97		
AVR-10003	100	120 A			87 A					
AVR-12003	120	145 A			105 A					
AVR-15003	150	180 A			130 A					
AVR-20003	200	242 A			176 A					
AVR-30003	300	363 A			264 A					
AVR-40003	400	484 A			352 A					
AVR-50003	500	606 A			440 A					
AVR-60003	600	727 A			528 A					
AVR-80003	800	970 A			705 A					
AVR-100003	1000	1212 A			881 A					
Noise Level	< 50 dB (at 1 meter distance)									
Front Panel Functions	Input/Output Voltage, Output Current, "Regulator Active" indicator									
Dry Contact Info	Contact types: Regulator Active, Output High Voltage, Output Low Voltage, Regulator Inactive (NO, C, NC)									
* For inquiries regarding different bandwidth ranges, please contact the sales department.										

Inform AVR regulates voltage by preventing all fluctuations & spikes in the mains voltage. Additionally, thanks to its electronic protection feature, It disconnects the output voltage electro-mechanically when an increase or decrease occurs that is out of limits and prevents all the possible problems by electronic protection (with breaker module version). It can be safely used with all type of loads as computer system, fax & photocopy machine, medical and laboratory equipment, residential and commercial lighting, complete apartment and office power supplies, workshops, and production facilities.

Inform AVR performs output voltage regulation with high precision, speed, and reliability via a Microprocessor-Controlled Digital Management Unit, using a booster transformer connected in series with the mains and a variac.

To maintain the output voltage within the safe limits, the servo system controls the DC motor by triggering it through a thyristor at the appropriate level. With its digital display feature, it provides accurate and precise monitoring of Input/ Output Voltage, Output Frequency & Current values to the user. Signal indicators located on the front panel show whether there is voltage at the output, and whether the output voltage is within or outside the acceptable limits (high or low). This status can also be monitored remotely via dry contact signals.

Fast fuses are used in the input&output side to protect both the load and AVR against short circuits and overcurrents. The internal cooling of the device is provided by a fan. In single-phase models, natural cooling is applied through a specially designed internal structure.