

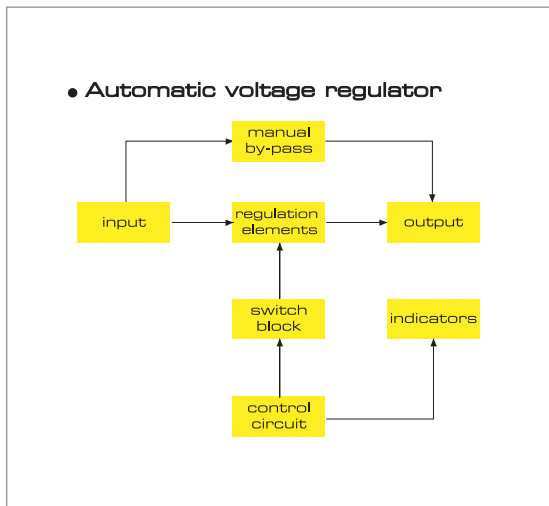
Automatic Voltage Regulator (AVR)

Single phase



AVR series 2.2 KVA-17.6 KVA

Operating principle



The Automatic Voltage Regulator is designed to protect your electrical equipment from voltage fluctuations in the mains.

Working on the principle of changing coils, the AVR feeds the user equipment from its own auto-transformer. Coil changes prevent fluctuations in the supply voltage thus ensuring the safe operation of the electrical equipment.

The working mechanism is different from the classic automatic servo voltage regulator: changes in the number of turns in the autotransformers are made electronically through power relays.

Main Features

- Short circuit and overload protections are ensured by single circuit breaker.
- Cooling by natural convection.
- Microprocessor control
- The phase protection senses the high or low voltage conditions and cuts and indicates a fault condition.
- Wide input range.
- Suitable for non-linear loads
- High efficiency

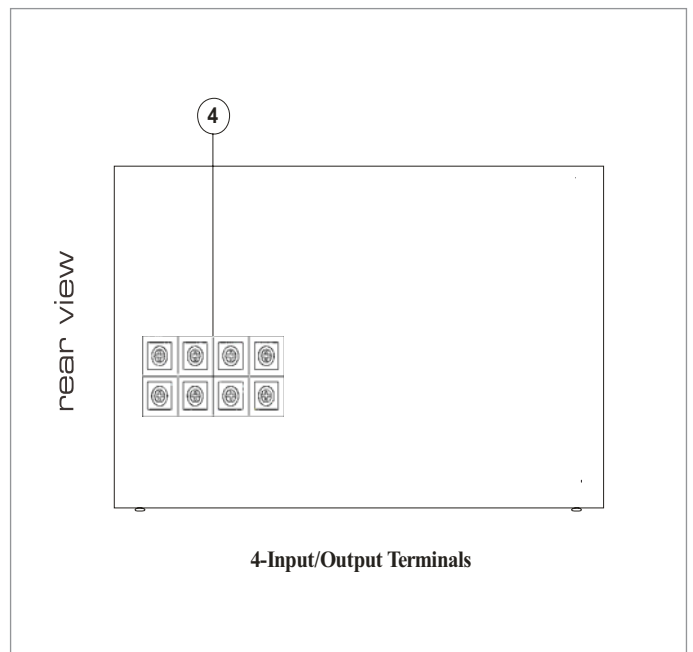
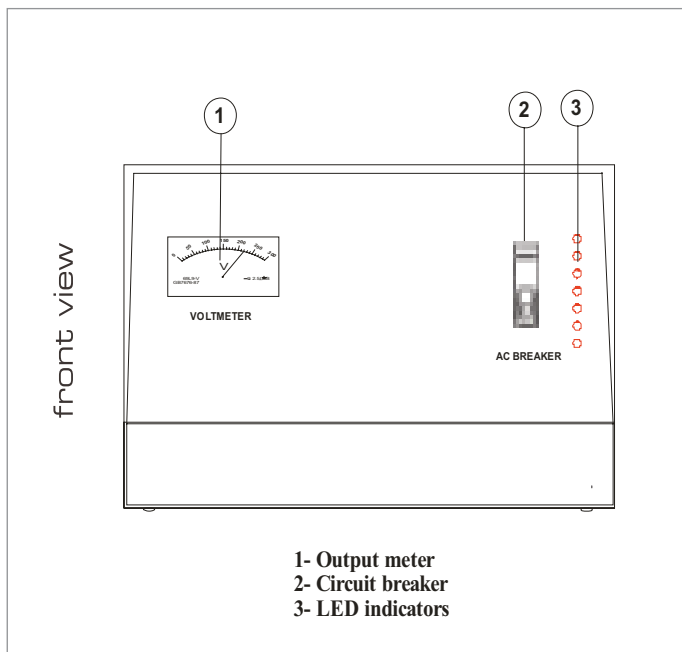
Applications

- Telecommunication equipment
- Industrial processes
- House appliances

Optional

- Digital meters instead of analogue meters
- Manual by-pass
- Other output tolerance





Characteristics

model	AVR	022	035	044	066	088	110	132	154	176
input	Power (KVA)	2.2	3.5	4.4	6.6	8.8	11	13.2	15.4	17.6
	Voltage (V)	160-240								
	Frequency (Hz)	50/60								
	Frequency tolerance (%)	± 5								
	Maximum current per phase (A)	10	16	20	30	40	50	60	70	80
output	Power (KVA) at lowest input voltage	1.6	2.5	3.2	4.8	6.4	8	9.6	11.2	12.8
	Voltage (V)	220								
	Voltage tolerance (%)	± 4								
	Frequency (Hz)	50/60								
	Power factor	>0.9								
	Crest factor	up to 3								
general	Total Harmonic Distortion (%)	<0.5% for linear loads Minimally transmitted to load								
	Transfer time (ms)	<10								
	Efficiency (%)	>90								
	Cooling	Natural cooling							Fan	
	Recovery	Microprocessor controlled								
	Protection degree	IP20								
environment	Overload	150% for 2 minutes								
	Design ambient temperature (°C)	0...40								
	Relative Humidity (%)	20...90								
physical	Noise level at 1 meter(dB)	< 45								
	Weight (Kg)	8.5	11	12.5	20.5	22.7	25.4	29	38.5	40
	Dimensions WxDxH (mm)	215x250x150			290x360x210				360x410x260	

