

SINGLE PHASE VOLTAGE REGULATORS

OMSAN single phase micro-processor controlled servo regulators are produced between 3,5 kVA - 25 kVA. Micro-controlled electronic board has two special potentiometers, one for setting the output voltage sensitivity and the other for preventing the unnecessary movements of servo motor in order to increase mechanical life of the variac and the regulator. Regulator responds to voltage spikes at optimum pulses to prevent overshoot & undershoot type corrections. So that load becomes safer against voltage surges and short circuit current.

OMSAN regulators do not have tap changes providing instant current reaction and voltage sensitivity so that low risk of break downs, long lasting operation and low maintenance features are achieved. They operate mechanically at 100V/sec regulation speed with low output voltage tolerance and are ideal solutions for protecting sensitive electronic loads. They can be used to protect either household appliances or industrial machines.

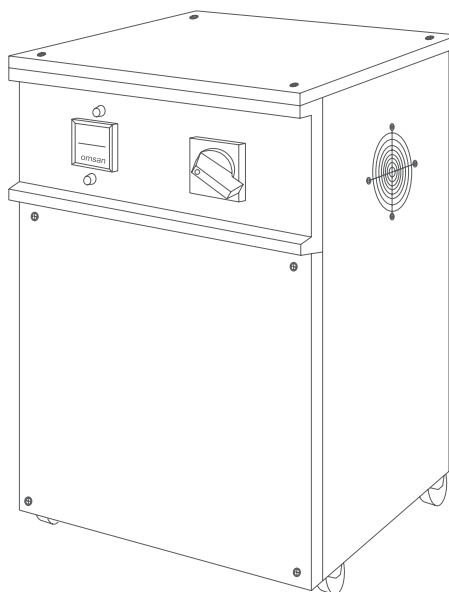
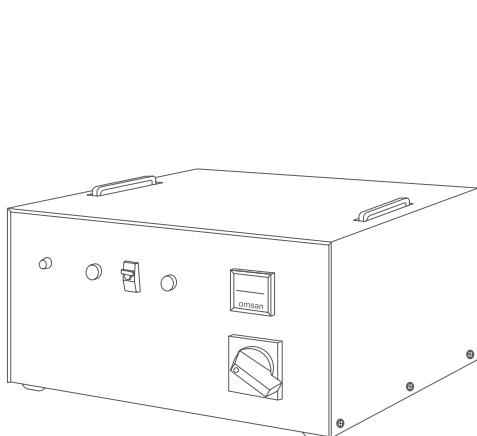
- True RMS measuring
- Controlling with microprocessor
- Perfect static and dynamic regulation
- Mechanical By-pass (Kraus)
- Circuit breaker (Legrand)
- Electronic protection against over-load and short circuit (optional)
- Input and output voltage display

GENERAL TECHNICAL SPECIFICATIONS

OPERATING TECHNIQUE	Micro controlled full automatic servo controlling
INPUT VOLTAGE REGULATION RANGE	160/250 VAC 120/230 VAC
OPERATING FREQUENCY	50 Hz \pm %5
OUTPUT VOLTAGE	220 VAC RMS \pm %2
OVERLOADING	10 Seconds at % 200 Load
REGULATION SPEED	100 VAC / sec
OUTPUT THD	Equal to input THD
RECOVERY TIME	500 ms (165-225 VAC)
EFFICIENCY (FULL LOADED)	> % 98
MECANIC BY-PASS	Rotary switch (pole changer)
COOLING	Thermostat controlled fan coils
OPERATING TEMPERATURE	-10 40 °C
STORING TEMPERATURE	-20 60 °C
OPERATING ALTITUDE	0 - 2000 m
HUMIDITY	%90 non-condensing (DIN 40040)
PROTECTION CLASS	IP 54
SYSTEM INPUT PROTECTION	Over Current Thermic Fuse, Instant Over Voltage Protection
INSTANT VOLTAGE AND PULSE PROTECTION	IEEE 587 (4500 A, 110 Joules)
ELECTRICAL NOISE REDUCTION	FCC Part 15 Class B
OUTPUT VOLTAGE PROTECTION	STANDARD REGULATOR: Circuit breaker OPTIONAL PROTECTION: Short Circuit, Over Current Electronic Protection, Over and Lower Voltage Protection
STANDARDS	EN50091-1 (security) EN50091-2

INPUT VOLTAGE RANGE

Standard input voltage ranges;
Input : 160 – 250 VAC Output : 220 VAC
Special input voltage ranges;
Input : 120 – 230 Output : 220 VAC



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Product Code	Power kVA	Height cm	Width cm	Depth cm	Weight kg	Current Amper	Cable Type
OM VR MS 3,5	3,5	27	45	35	34	13	3x2,5
OM VR MS 5	5	27	45	35	42	19	3x4
OM VR MS 7,5	7,5	27	55	35	49	28	3x6
OM VR MS 10	10	27	55	35	58	37	3x6-10
OM VR MS 15	15	32	60	40	82	55	3x10
OM VR MS 20	20	85	50	50	112	73	3x16
OM VR MS 25	25	85	50	50	124	91	3x16