

IMP1

SINGLE PHASE 3-50KVA

Electronic Stabilizers

TECHNICAL SPECIFICATION

NEW M.Y.2024



IMP series STATIC VOLTAGE REGULATOR is a highly technologic solution for operation of your sensitive devices without any problem wherever the main supply is not trusted. Made by high quality semi-conductor materials, it has the capacity to operate with high efficiency under terms of high and fast change of voltage and at full load.

IMP series STATIC VOLTAGE REGULATOR controls via microprocessor cards and regulates via thyristors. There are no moving part in IMP. Thus, it has extremely higher speed response (500 VAC/sec.) than Servo regulators. Easy usage with its compact design, maintenance free and long-life facilities.

Single phase electronic static stabilizers IMP1 range

Structural Specification



- 3 - 50 kVA power interval as single phase
 - Safe use for all the sensitive electrical devices
 - Control and protection unit with microprocessor-based boards
 - Regulation between 172 Vac - 264 Vac
- Optional range: $\pm 15\%$ (-XS), $-35\%+15\%$ (-M), $-50\%+15\%$ (-L)
- 500 V / sec voltage regulation rate
 - Static and modular structure with Thyristor and SMPS technology
 - High efficiency, silent operation
 - LCD front panel
 - Maintenance free design which can't be affected from dust, humidity or vibrations.
 - In case of defect, ON/OFF and by-pass switch to operate from network
 - CONTACTOR unit for LOW - HIGH voltage at output and for the first opening delay



- Produced with high quality equipment to obtain minimum failure risk
- Isolation transformer (optional)
- Production with ISO-9001:2000 Quality Management System
- 2 years warranty
- 10 years spare part warranty
- Technical service support

USAGE AREAS

Uninterruptible Power Supplies
TV / Radio transmitter stations
GSM base stations
Image and sound production studios
Air-conditioners
Medical Devices
Hospitals
Neon and laser illumination
Press and textile machines, photograph press machines
Submersed pumps, ships, electric motors
and all electrical devices sensitive to voltage changes against network problems

Technical data and images may be subject to a change without notice

Single phase electronic static stabilizers IMP1 range



Technical Specification:

Rated power	from 3 to 50KVA
Power Factor	1.0
Input voltage	230Vac single phase (1P + N)
Input voltage variation	from 172V to 265V (-25%+15%) optional range $\pm 15\%$ (-XS), -35%+15% (-M), -50%+15% (-L)
Input frequency	50/60Hz $\pm 5\%$
Output voltage	230Vac single phase
Output current	according to rated power (see table below)
Output voltage accuracy	$\pm 2\%$ ($\pm 3\%$ or $\pm 1\%$ for other options) According to input range 0.5% or 1% accuracy available as an option
Technology	Thyristors
Regulation speed	500V / sec. (2/1000 sec/V)
Full load efficiency	> 97%
Max harmonic distortion	3%
Load acceptable variation	from 0 to 100%
Acceptable overload	3' at 110-125% load 10" at 126-150% load 0.2" over 151% load
Ambient temperature	from -10°C to +40°C
Relative humidity	Up to 90% without condensation
Altitude	Up to 2000m without derating
Cooling	Forced ventilation on back side
Noise level	< 50dB (A) at 1m. 100% load
Color	RAL7035

Protections:

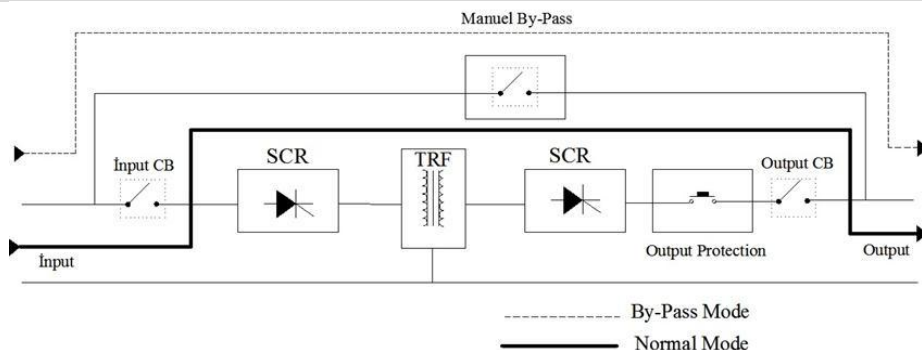
- Automatic Shutdown with output contactor with high/low voltage, overload
- Automatic Shutdown in case of overtemperature, short circuit, thyristors fault
- Input automatic circuit breaker

Display Info:

input voltage	Output voltage	Output frequency
Load %	Overtemperature advise	Low/high voltage advise
Fault record database	Technical service info	

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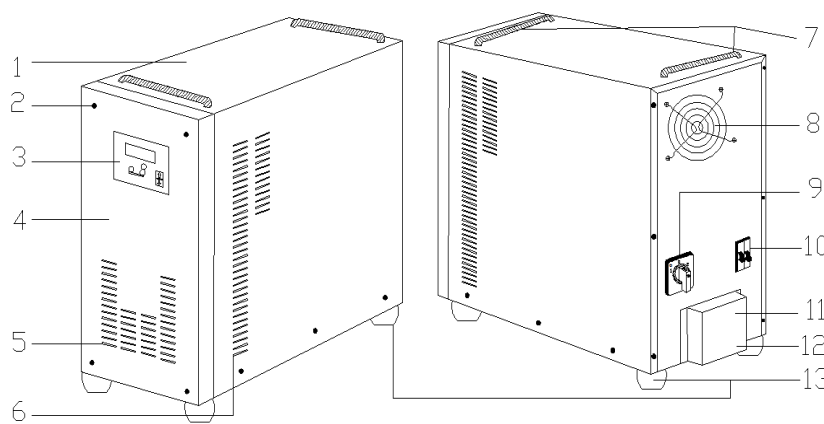
Single phase electronic static stabilizers IMP1 range



Essential scheme IMP1 range

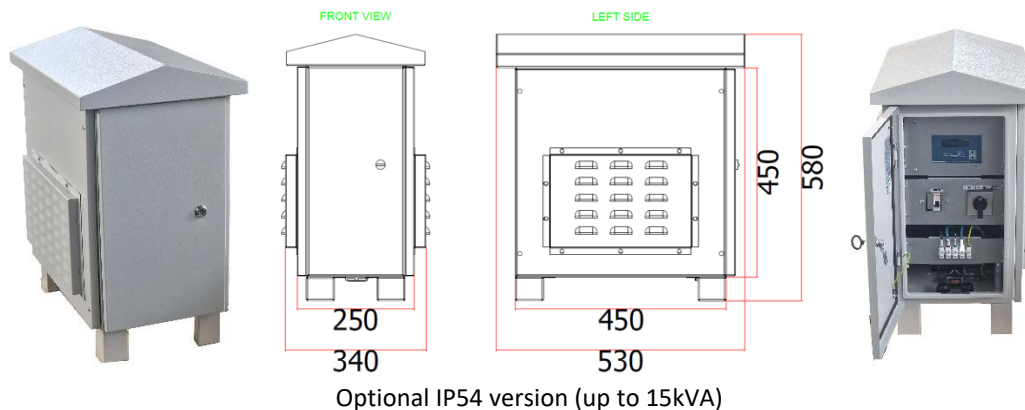
KEY:

1. Protective cover
2. Front panel
3. Control panel and display
4. RS485 connector (internal, optional, not available on all models)
5. Front cooling
6. Side cooling
7. Lifting handles
8. Smart ventilation
9. Bypass-stabilizer switch
10. Input circuit breaker (optional output)
11. Connection terminal block
12. Connection protection cover
13. Feet



Part no	Rated power	Rated current	Dimensions W X D X H cm.	Weight KG.
IMP103	3KVA	13 A	20x41x37	20
IMP105	5KVA	22 A	20x41x37	25
IMP107	7.5KVA	32 A	27x45x46	30
IMP110	10KVA	43 A	27x45x46	40
IMP115	15KVA	65 A	27x45x46	55
IMP120	20KVA	87 A	27x45x46	70
IMP130	30KVA	130 A	31x52x52 *	95
IMP140	40KVA	174 A	31x52x52 *	120
IMP150	50KVA	217 A	On request	--

* Dimensions may vary based on component availability and costs at the time of production



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