

Single phase electronic static stabilizers ST1 range

ST 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 . Produced of high quality semi-conductor materials, at the capacity to operate with high efficiency under terms of high and fast change of voltage and at full load.

ST series STATIC VOLTAGE REGULATOR controls via microprocessor cards and regulates via thyristors. There are no moving part in ST. 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.



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 V AC - 264 V AC (90 VAC-280 VAC optional)
- 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 not 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 equipments to obtain minimum failure risk
- Surge Arrester against to high current and lightning (optional)
- Isolation transformer (optional)
- Harmonic filter (optional)
- RFI filter (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

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Technical Specification:

Rated power	from 3 to 50KVA
Power Factor	0.90
Input voltage	230Vac single phase (1P + N)
Input voltage variation	from 172V to 265V (-25%+15%) (opz. $\pm 15\%$, -35%+15%, -50%+15%)
Input frequency	50Hz $\pm 5\%$
Output voltage	230V c.a. single phase
Output current	according to rated power (see table below)
Output voltage accuracy	$\pm 2\%$ ($\pm 3\%$ for other options)
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
Noise level	< 50dB (A) at 1m. 100% load

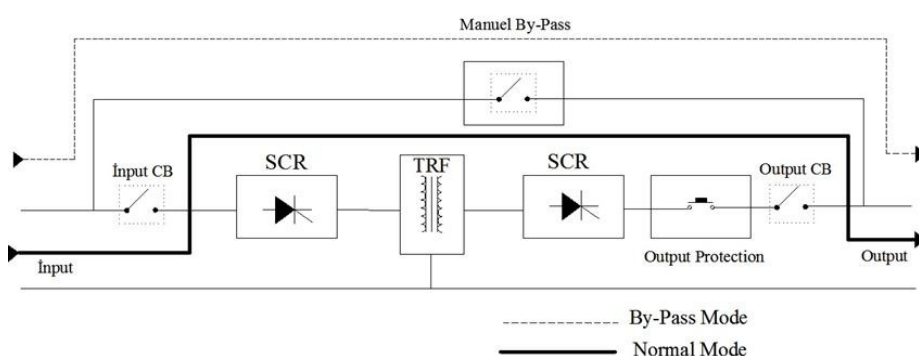
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Protections:

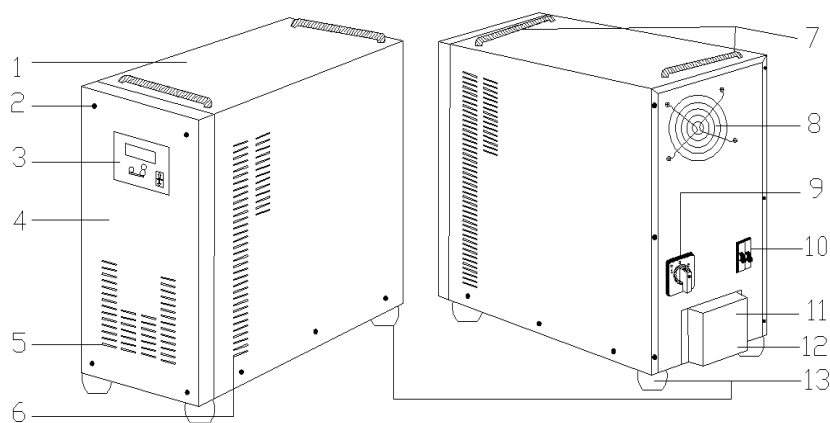
- Automatic Shutdown with output contactor with high/low voltage, overload
- Automatic Shutdown in case of overtemperature, short circuit, thyristors fault
- Input automatic circuit breaker

Display Info:

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



Essential scheme ST1 range



Part no	Rated power	Rated current	Dimensions L X P X H cm.	Weight KG.
ST103K	3KVA	12 A	20x41x37	20
ST105K	5KVA	19 A	20x41x37	25
ST107K	7.5KVA	29 A	27x45x46	30
ST110K	10KVA	38 A	27x45x46	40
ST115K	15KVA	58 A	27x45x46	55
ST120K	20KVA	78 A	27x45x46	70
ST130K	30KVA	117 A	31x52x52	95
ST140K	40KVA	156 A	31x52x52	120
ST150K	50KVA	195 A	31x52x52	170