

IMP3

THREE PHASE 10-3200KVA

**THREE PHASE ELECTRONIC
VOLTAGE STABILIZERS**

TECHNICAL SPECIFICATION

NEW M.Y.2024

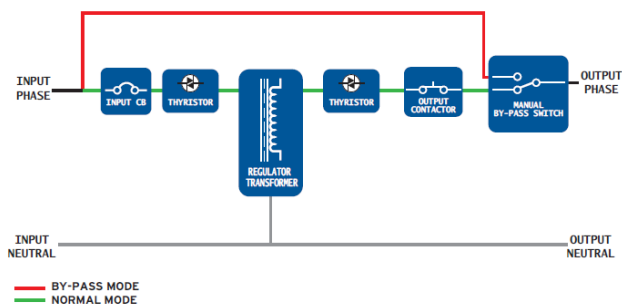


STATIC ELECTRONIC VOLTAGE STABILIZERS IMP3 range from 10 to 3200KVA

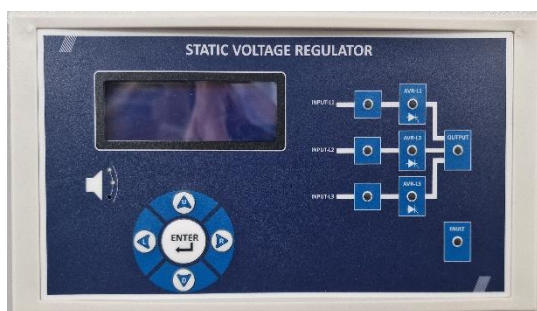


Ratings from 10 to 45kVA

- Power from 10kVA to 3200KVA
- Input Voltage Range: (-25% / +15%)
- Optional input range: $\pm 15\%$, $-35\%+15\%$, $-50\%+15\%$
- Smart voltage regulation software
- High speed voltage regulation (500V/sec.)
- High efficiency (97%)
- Protection against overload, over temperature, high voltage, low voltage and other failures.
- Designed for heavy duty industrial working conditions
- Maintenance free electronic voltage management technology
- Fast voltage correction for sag and swells in voltage
- Built in surge arrester for surges and sags
- Independent phase regulation to correct voltage and load imbalance.
- Self-test facility Parallel connection for special high power applications
- LCD Display for easy monitoring (touch screen optional)
- Modbus-RTU or Remote management unit on Ethernet for remote communication



Single line diagram



Display, synoptic and keyboard



Ratings from 60 to 300kVA

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

WHAT IS A STATIC VOLTAGE STABILIZER?

IMP Static Voltage Stabilizer are devices for voltage control, protection and management which are microprocessor controlled, and which have high speed semiconductor technology. They adjust the voltage to the right value required by industrial devices that are fast growing and becoming more sensitive; they are designed to meet their continuous, settled and secure energy needs.

What are the APPLICATION FIELDS?

IMP Static Voltage Stabilizer, which can be produced in a very wide input voltage interval for places where grid voltages drop or rise excessively, evaluates grid voltage decreases and increases in 0.020 seconds when the main grid voltage drops -60% or rise +40% and corrects with 500V/sec. Speed.

By this means, your high-cost industrial devices are protected against dangerous voltage changes and also it enables your systems to work with high efficiency and without interruption.

How do we DESIGN?

IMP Static Voltage Stabilizer is designed with its compact, aesthetic and modular structure, in such a way that it can be easily connected with electric systems everywhere in the world. "BUS-BAR PANEL INPUT-OUTPUT MODULE" which is required for direct connection can be added to BUS BAR systems optionally on request.

Information such as Input Voltage, Output Voltage, and Load Amount etc. can be viewed; breakdown and warning information can be followed on LCD DISPLAY which is standard in IMP SVS. Devices can be reached over on the web, view all information on LCD DISPLAY and change setting values of the device with "REMOTE VIEWING AND MANAGEMENT" (optional).

How do we PROTECT Your Machines?

IMP Static Voltage Stabilizer has High Voltage, Low Voltage, Over-temperature, Overload, Short Circuit and Phase Break protections for its own operating safety, also for all electronic devices in your business to work safely. There is a "Manual By-pass" unit which enables the loads to be transferred directly to network voltage for providing usage flexibility and working safety. It is equipped with thermomagnetic fuses in its input and output terminals.



(optional)

STRUCTURAL SPECIFICATIONS

- 2kVA - 3200kVA with three phase output
- All industrial voltage value (208 - 380 - 400 - 415 - 480 - 600V)
- Wide input voltage ranges up to -65% / +45%
- Maintenance-free new technology with Microprocessor control.
- High speed regulation (Up to 500V/sec.)
- High Efficiency (97%)
- CPU controlled thyristor units for power management
- Protection against overload, over temperature, high voltage, low voltage etc.
- Flexible design and software property that can easily orient itself to different grid and voltage conditions.
- On / Off and manual by-pass switch for working through grid, in cases where malfunction happens or when maintenance needs.
- Real static-modular design with THYRISTOR technology used in power units and SMPS technology in feeding units.
- "Remote Management System" and software support by which the user can remotely view manage all this information.
- Production according to ISO 9001:2008 Quality Management System.
- New technological design that is suitable for industrial environments like very dusty conditions, humidity and vibration.
- Maintenance free design.
- Safe usage for all electrical devices.
- Minimal size, long life.
- User friendly, easy and comprehensive LCD Display and mimic diagram
- Compact structure with high quality material and minimum malfunction hazard
- Surge Arrester against sudden voltage increases and streaks lightning
- Spare part providing guarantee for 10 years
- Parallel connection for special high-power applications
- Self-test facility

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MODEL IMP3...	10	15	22	30	45	60	75	100	120	150	200	250	300	400	500
Power KVA	10	15	22	30	45	60	75	100	120	150	200	250	300	400	500
Power factor	1.0														
INPUT															
Input voltage	400Vac 3ph.+N														
Input voltage range	-25% +15% from 300Vac ~ 460Vac (optional ±15%, -35%+15%, -50%+15%)														
Input frequency	50/60Hz ±5%														
Input terminals	Terminal blocks														BARS
OUTPUT															
Output voltage	400Vac														
Output accuracy	± 2%														
Output current A	14	22	32	43	65	87	108	143	173	217	289	362	434	579	724
Overload capacity	101% - 125% load 3' 126% - 150% load 10" 150% load output disabled in 0.2"														
Output frequency	50/60Hz ±5%														
Regulation speed	ca. 500V / sec														
Full load efficiency	min. 97%														
Output connections	Terminal blocks										BARS				
LCD Display	4 x 16 char. LCD display Input voltage – output voltage - % load – output frequency – stabilizer state and fault – overload – overtemperature – input fault alarms – output voltage adjustment														
Communication	Modbus-RTU or SNMP Monitoring Port (optional)														
PROTECTIONS															
Output protection	Input out of range -40%+25% output disabled through contactor														
Current protection	Electronic protection by microprocessor and output disabled through contactor														
By-Pass	Yes														
Surge suppressor.	Optional														
RFI/Harmonic filter	Optional														
Isolation transformer	Available on request														
OTHER DATA															
Max ambient temp.°C	-10° C ~ +40° C														
Altitude	2000 m														
Humidity	95% (without condensation)														
Noise level	< 50dB														
Color	RAL7035														
Dim. (WxDxH) cm.	35x79x80					60x70x170			70x80 x150	70x90 x150	80x90 x170	80x100x170		90x120x190	
Weight kg.	100	105	115	130	170	220	270	300	350	550	750	820	900	1050	1200

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PICTURES



TYPICAL SHAPE OF SIZES FROM 10KVA to 45KVA



IP54 VERSION UP TO 22KVA



FROM 60KVA TO 300KVA



IP54 VERSION > 25KVA



TYPICAL SHAPE OF LARGER SIZES FROM 400kVA

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OPTIONS

Non-standard input voltage value	xxxV	IMP series voltage regulators can be produced at any required input voltage value that must be stated clearly by the order confirmation
Non-standard input voltage range	XS, M, L, XL	IMP series voltage regulators can be produced at different input voltage ranges. The required ranges levels must be stated clearly by the order confirmation. Maximum input voltage range: -60%, +40%
Non-standard output voltage value	xxxV	IMP series voltage regulators can be produced at any required output voltage value that must be stated clearly by the order confirmation
Non-standard output voltage tolerance	R	Output voltage tolerances of regulators can be +/-1%, +/-2%, -3%, +/-5%.
Adjustable output voltage	ADJ	Output voltage of IMP series regulators can be adjusted by the LCD panel. Maximum adjusting range is +/-15%
Non-standard frequency	FRQ	IMP series voltage regulators are produced to function under 60 Hz network frequency.
Output protection MCCB	OCB	Optional MCCB may be added to the regulator output to provide additional protection.
Automatic Uninterruptible by-pass	ABP	Automatic Uninterruptible By-pass unit may be added to the output of IMP series voltage regulators.
Input / Output Transformer	TRF	Isolation Transformer or Voltage Changing Autotransformer can be supplied for both input and output of IMP series voltage regulators. Required transformer specification must be given by the order.
Special Enclosure	K	IMP series voltage regulators can be produced both INDOOR and OUTDOOR in special cabinets having different IPXX protection classes.
Input / Output EMC Filter	EMC	Specially designed EMC-Filters can be added optionally to the both input and output of IMP series voltage regulators. Filter specifications must be stated by offer/order
Input /Output Surge protector	ESD	High-Voltage Protection and Surge Arrester can be added to the both input and output of IMP series voltage regulators. The required protection classed and specifications (CLASS-I, CLASS-II, CLASS-III) must be given by the offer/order.
Remote Monitoring and Management unit	RMU	For remote monitoring and managing of IMP series voltage regulators, Remote Management and Monitoring unit can be added optionally. No any other software is needed for this RMU unit which provides the communication over LAN connection or internet
Dry contacts	C	NO-NC dry contactor sockets can be applied for ON-OFF and Automatic By-pass modes of the regulators.
Non-standard Input / Output terminal	T	According to the various customer needs. Input and output terminals can be designed and located specially on the cabinet. The required terminal drawings must be supplied together with the offer/order.
Special design and accessories	SPM	IMP voltage regulators can be designed specially with respect to direct customer needs and technical specifications. All special requirements and detailed technical drawings and specifications for accessories must be provided by the customer at the offer/order stage
Parallel connection management unit	PCM	Up to 4 SVS units can be connected in parallel for special high power applications. A PCM unit is used for management and synchronization when SVS units are connected in parallel.

• NOTES & OPTIONS

- Any optional demands are not included in the prices.
- Static voltage stabilizers given in this brochure are easy for installation also in case of need our engineers are ready for help-desk freely.
- Not all the optional demands for every model may be met, please keep in touch with your sales representative for suitable options
- The technical specifications given in this brochure are to be used as a guide. we have the right to change without giving prior information. Please contact your sales representative to get the recent information
- The technical specifications in this brochure are for S model. Please ask for different models and different technical specifications to your sales representative

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