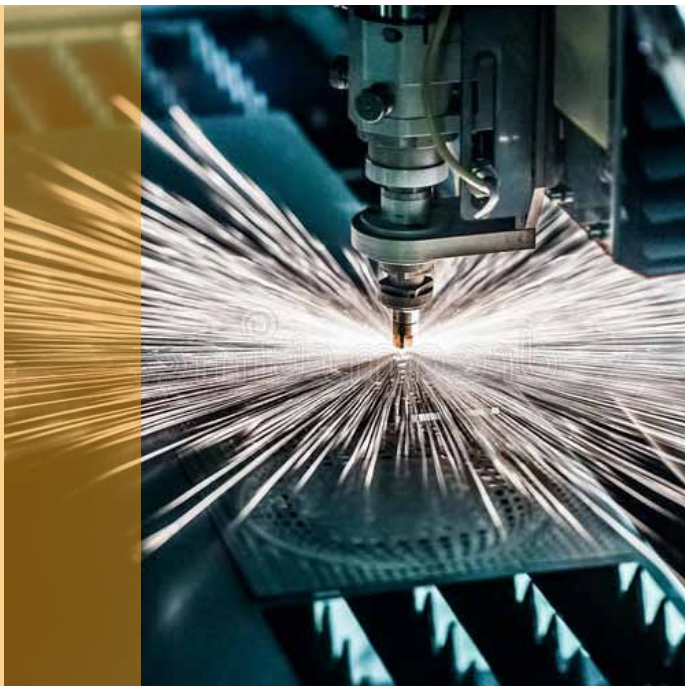
INFORISE

STATIC VOLTAGE REGULATOR
INDUSTRIAL BATTERY CHARGER



INFORISE STATIC VOLTAGE STABILIZER

Electronic or electromechanical voltage stabilizers which are produced in order to prevent the devices located in houses, working places, factories etc. to be damaged depending on the voltage drops or voltage rises on main supply and to get the maximum efficiency.

Compared to other stabilizer types, regulation speed of the INFORISE Static Voltage Stabilizer is much more higher (500 V/second), because it carries out the control operation with micro-processor controlled cards and correction operation by thyristor; besides it does not have any moving parts. Therefore, it does not need maintenance and its expected life is long.

In cases where the device needs to do regulation, it does not cause any power cut, because it does the regulation every time the grid sign pass 0 (zero). Also, sensitive devices could work with complete performance since output signs don't show any degeneration.

INFORISE Static Voltage Stabilizers are designed and produced in such a manner that can easily feed the non-linear loads and motor-driven devices which has high inrush current. Therefore, working of the devices that draw over instantaneous or peak current is supplied trouble-free.

Places where grid voltage is irregular and unreliable, it is a high-tech solution for your sensitive devices to work properly. It is produced by semiconductors and high quality material in order to operate with high efficiency at full load under extreme & high voltage charges conditions.

USAGE AREA

Uninterruptible Power Supplies, TV / Radio transmitter stations, GSM base stations, image and sound production studios, air - conditioners medical devices, hospitals, neon and laser illuminations, press and textile machines, photograph press machines, submerging pumps, ships, electric motors and all electrical devices sensitive to voltage changes.

STRUCTURAL SPECIFICATIONS

- Production between power range of 2KVA-3000KVA, with single phase output and three phase output.
- High voltage regulation speed (500 V / second)
- On / off and manuel by-pass switch for working through grid, in cases where malfunction hapens or when maintenance needs.
- Suitable for three phase unbalanced loads up to 100%
- Electronic protection against over current and short circuit
- Smart control and protection unit through micro-processor based boards
- User friendly, easy and comprehensive LCD display and mimic diagram (2x16 for single phase devices, 4x16 for three phases devices)
- Real static modular structure with THYRISTOR tech used in power units and SMPS tech used in power supply units.
- New technological design that is suitable for industrial environment, does not effected by dust, moisture and vibration and does not need maintenance.
- Ergonomic carrying handles and rubber foots (only for single phase)
- Omni Wheel (only for three phases)
- Safe usage for all electrical devices.
- Flexible design and software property that can easily orient itself different grid and voltage conditions
- High efficiency, silent operation
- Aesthetic, ergonomic design, minimal size, long life
- Compact structure with high quality material and minimum malfunction hazard
- Special, durable cabinet, powder coated with standard color named RAL-7035
- Through a software support and "Remote Management System", the ability of monitoring and controlling (Optional)
- Surge arrestor against to spike and lightning (Optional)
- Isolation transformer (Optional)
- Harmonic filter (Optional)
- RFI filter (Optional)
- Production with ISO 9001:2008 Quality Management System
- Spare part providing guarantee for 10 years
- Broad service network

TECHNICAL SPECIFICATIONS of STATIC VOLTAGE STABILIZER
SVS SERIES / SINGLE PHASE INPUT – SINGLE PHASE OUTPUT

MODEL	SVS 1002	SVS 1003	SVS 1005	SVS 1008	SVS 1010	SVS 1015	SVS 1020	SVS 1030	SVS 1040	SVS 1050
Power (kVA)	2	3	5	8	10	15	20	30	40	50
Power Factor	0,90									
INPUT										
Voltage	220 V AC Single Phase + Neutral *(230 - 240 V AC Optional)*									
Voltage Tolerance	160 V AC - 260 V AC *(90 - 320 V AC Optional)*									
Frequency	50 Hz. *(60 Hz. Optional)* +- 5%									
Connection	Suitable Terminal									
OUTPUT										
Voltage	220 V AC Single Phase + Neutral *(230 - 240 V AC Optional)*									
Voltage Tolerance	+- 2% *(+-1% (Optional)*									
Current (for each phase)	8 A	12 A	20 A	30 A	40 A	61 A	81 A	122 A	164 A	205 A
Over Load	101 % - 125% Load 3 Min. / 126% - 150% Load 10 Sec. / 151% - Load Output Off in 0,2 Sec.									
Frequency	50 Hz. *(60 Hz. Optional)* +- 5%									
Regulation Speed	500 V/sec									
Efficiency	> 97%									
Connection	Suitable Terminal									
LCD Display	With 2x16 character LCD Display: Input Voltage, Output Voltage, % Output Load, Output Frequency, Stabilizer Condition and Failure Info, Over Load, Over Temperature, Input Failure warning ext.									
Communication	Through a software support and “Remote Management System”(RS-232 Communication port, Ethernet), the ability of monitoring and controlling									
PROTECTION										
Output Voltage Protection	When Output Voltage out of 200 V AC - 240 V AC tolerance values Output Off with contactor									
Current Protection	1-Fuse protection with MCB at Input or Output 2-Electronical Over Current Protection Via Microprocessors									
By-pass	Manuel By-Pass for failure and Maintenance									
Surge Arrester	Suitable Surge Arrester unit for lightning and high voltage *(Optional)*									
RFI Filter Harmonic Filter	RFI Filter / Harmonic Filter can be used to eliminate Input High frequency noises and Harmonic current *(Optional)*									
Isolation Transformer	Input and Output Isolation Transformer for special usage *(Optional)*									
GENERAL										
Operating Temperature	-10 °C ~ +40 °C *(-15 °C ~ +55 °C Optional)*									
Altitude	< 3000 m									
Humidity	90% non condensed									
Acoustic Noise	< 45 dB									
Dimension (WxDxH)-cm	20x37x36		25x40x43				33x76x76			
Weight (Kg)	28	30	40	45	50	70	90	110	130	150

TECHNICAL SPECIFICATIONS of STATIC VOLTAGE STABILIZER

SVS SERIES / THREE PHASE INPUT – THREE PHASE OUTPUT

MODEL	SVS 30010	SVS 30015	SVS 30023	SVS 30030	SVS 30045	SVS 30060	SVS 30075	SVS 30100	SVS 30120	SVS 30150	SVS 30200	SVS 30250	SVS 30300	SVS 30400
Power (kVA)	10	15	22,5	30	45	60	75	100	120	150	200	250	300	400
Power Factor	0,90													
INPUT														
Voltage	380 V AC Three Phase + Neutral *(400 - 415 V AC Optional)*													
Voltage Tolerance	275 V AC - 450 V AC *(155 - 550 V AC Optional)*													
Frequency	50 Hz. *(60 Hz. Optional)* +- 5%													
Connection	Suitable Terminal													
OUTPUT														
Voltage	380 V AC Three Phase + Neutral *(400 - 415 V AC Optional)*													
Voltage Tolerance	+- 2% *(+- 1% (Optional)*													
Current (for each phase)	13 A	20 A	30 A	40 A	61 A	81 A	102 A	133A	163 A	204 A	272 A	341 A	409 A	545 A
Over Load	101% - 125% Load 3 Min. / 126% - 150% Load 10 Sec. / 151% - Load Output Off in 0,2 Sec.													
Frequency	50 Hz. *(60 Hz. Optional)* +- 5%													
Regulation Speed	500 V/sec													
Efficiency	> 97%													
Connection	Suitable Terminal													
LCD Display	With 4x16 character LCD Display: Input Voltage, Output Voltage, % Output Load, Output Frequency, Stabilizer Condition and Failure Info, Over Load, Over Temperature, Input Failure warning ext.													
Communication	Through a software support and “Remote Management System”(RS-232 Communication port, Ethernet), the ability of monitoring and controlling													
PROTECTION														
Output Voltage Protection	When Output Voltage out of 340 V AC - 420 V AC tolerance values, Output Off with contactor													
Current Protection	1-Fuse protection with MCB at Input or Output 2-Electronical Over Current Protection Via Microprocessors													
By-pass	Manuel By-Pass for failure and Maintenance													
Surge Arrester	Suitable Surge Arrester unit for lightning and high voltage *(Optional)*													
RFI Filter Harmonic Filte	RFI Filter / Harmonic Filter can be used to eliminate Input High frequency noises and Harmonic current *(Optional)*													
Isolation Transformer	Input and Output Isolation Transformer for special usage *(Optional)*													
GENERAL														
Operating Temperature	-10 °C ~ +40 °C *(-15 °C ~ +55 °C Optional)*													
Altitude	< 3000 m													
Humidity	90% non condensed													
Acoustic Noise	< 50 dB													
Dimension (WxDxH)-cm	33x76x76					55x80x130				75x95x145			85x110x175	
Weight (Kg)	85	92	130	135	165	230	250	300	350	600	800	1000	1150	1300

TECHNICAL SPECIFICATIONS of STATIC VOLTAGE STABILIZER
SVS SERIES / THREE PHASE INPUT – THREE PHASE OUTPUT

MODEL	SVS 30500	SVS 30600	SVS 30700	SVS 30800	SVS 30900	SVS 31000	SVS 31250	SVS 31500	SVS 31750	SVS 32000	SVS 32500	SVS 33000
Power (kVA)	500	600	700	800	900	1000	1250	1500	1750	2000	2500	3000
Power Factor	0,90											
INPUT												
Voltage	380 V AC Three Phase + Neutral *(400 - 415 V AC Optional)*											
Voltage Tolerance	275 V AC - 450 V AC *(155 - 550 V AC Optional)*											
Frequency	50 Hz. *(60 Hz. Optional)* +- 5%											
Connection	Suitable Terminal											
OUTPUT												
Voltage	380 V AC Three Phase + Neutral *(400 - 415 V AC Optional)*											
Voltage Tolerance	+- 2% *(+-1% (Optional)*											
Current (for each phase)	681 A	818 A	954 A	1090 A	1227 A	1363 A	1704 A	2045 A	2386 A	2727 A	3409 A	4090 A
Over Load	101 % - 125% Load 3 Min. / 126% - 150% Load 10 Sec. / 151% - Load Output Off in 0,2 Sec.											
Frequency	50 Hz. *(60 Hz. Optional)* +- 5%											
Regulation Speed	500 V/sec											
Efficiency	> 97%											
Connection	Suitable Terminal											
LCD Display	With 4x16 character LCD Display: Input Voltage, Output Voltage, % Output Load, Output Frequency, Stabilizer Condition and Failure Info, Over Load, Over Temperature,Input Failure warning ext.											
Communication	Through a software support and “Remote Management System”(RS-232 Communication port, Ethernet), the ability of monitoring and controlling											
PROTECTION												
Output Voltage Protection	When Output Voltage out of 340 V AC - 420 V AC tolerance values Output Off with contactor											
Current Protection	1-Fuse protection with MCB at Input or Output 2-Electronical Over Current Protection Via Microprocessors											
By-pass	Manuel By-Pass for failure and Maintenance											
Surge Arrester	Suitable Surge Arrester unit for lightning and high voltage *(Optional)*											
RFI Filter Harmonic Filter	RFI Filter / Harmonic Filter can be used to eliminate Input High frequency noises and Harmonic current *(Optional)*											
Isolation Transformer	Input and Output Isolation Transformer for special usage *(Optional)*											
GENERAL												
Operating Temperature	-10 °C ~ +40 °C *(-15 °C ~ +55 °C Optional)*											
Altitude	< 3000 m											
Humidity	90% non condensed											
Acoustic Noise	< 50 dB											
Dimension (WxDxH)-cm	165x90x177						240x90x177					
Weight (Kg)	1300	1450	1700	1800	1950	2200	2700	3200	3800	4000	4500	5000

BATTERY CHARGER UNIT-RECTIFIER

INFORISE DC Power Supplies are produced with microprocessor based cards and have modular structure with its electronical card design. Control and adjustment is realized with thyristor, diode bridges and transistor technologies. System has its own protection against overcurrent, over
voltage, over temperature, short circuit and peak current. In INFORISE Battery Chargers & Rectifiers an inductor exists at the output. Input and output terminals are in cabinet and protected by suitable fuses..

USAGE AREA

Produced for feeding systems of electronic devices in any industry supplied with DC voltage. INFORISE Battery Charger Units manufactured for DC feeding systems and charge of lead acid, nickel cadmium and dry batteries. In high discharge currents it provides opportunity to turn on and turn off in short periods. It provides appropriate solutions in emergency illuminating, alarm communication circuits, galvanization and in emergency aluminums eloksal facilities, petro chemistry industry and power electronic practices.

STRUCTURAL SPECIFICATIONS

- Production with Single phase or Three phase input
- Production between range of 12-600 V DC and 5 A-600 A
- Automatic floating charge-boost charging property
- High productivity through Thyristor-Diode, Transistor technology and micro-processor controlledboards
- Low ripple 1% high current and voltage stability
- User friendly, easy and comprehensible LCD display and mimic diagram (2x16 for Single phase devices, 4x16 for Three phases devices)
- Audible and lightened warning for mains cut,DC low and malfunctions
- External battery connection
- Battery discharge protection with Low Voltage Discon nector unit (LVD unit)
- Minimal size, static structure, easy commissioning
- Cabinet design suitable for industrial environment
- RS232 Communication interface (Optional)
- Manual adjusting property for output voltage and output current (Optional)
- Automatic battery activation in case of power cuts (Optional)
- Possibility of regulation of charge-voltage-current through battery temperature feedback (Optional)
- Production with ISO 9001:2008 Quality Management System
- Spare part providing guarantee for 10 years
- Wide service network

TECHNICAL SPECIFICATIONS of BATTERY CHARGER RECTIFIER
1P SERIES / SINGLE PHASE INPUT & 3P SERIES / THREE PHASE INPUT

MODEL	1P SERIES	3P SERIES
Power (kVA)	3 - 15 kVA	10 - 500 kVA
Power Factor	0,60	
INPUT		
Voltage	220 V AC Single Phase + Neutral *(110VAC-240VAC Optional)*	380 V AC Three Phase + Neutral *(190VAC-415VAC Optional)*
Voltage Tolerance	+- 15% *(+-25% Optional)*	
Protection	Suitable fuse (MCB or MCCB)	
Frequency	50 Hz. *(60 Hz. Optional)* +- 5%	
Input Filter	Input RFI and EMI filters *(Optional)*	
OUTPUT		
Nominal Output Voltage	12 VDC / 24VDC / 48VDC / 110VDC / 220VDC up to 600 VDC	
Nominal Output Current	30A / 60A / 100A / 150A / 200A up to 600 A	
Voltage Tolerance	+- 1%	
Battery Charging System	Automatic constant current / constant voltage control with microprocessor cards Programmable automatic BOOST charge - FLOAT charge control..	
Circuit Supply System	Output voltage regulation and restriction for Battery charger and power supply circuits applications with “Silicon Dropper” *(Optional)*	
Efficiency (%100 Load)	>90%	
Crest Factor	3:1	
Over Load	0 %- 100% Load operates continuously / 125% Load electronical current limiting	
Protection	Electronical warning and protection for; high output voltage, low output voltage, over temperature and over load	
Communication	Through a software support and “Remote Management System”(RS-232 Communication port, Ethernet), the ability of monitoring and controlling *(Optional)*	
LCD Display	Input Voltage, Output Voltage, output current, battery current, boost charge, float charge, boost charge time and set values for LVD can be seen on LCD display. Additionally; written warnings for over current, ove temperature, input failure, output failure and general failure *(failure record optionally)*	
Connection	Suitable terminals for input, output, battery and alert contact	
GENERAL		
Operating Temperature	-10 °C ~ +40 °C *(-15 °C ~ +55 °C Optional)*	
Altitude	< 3000 m	
Humidity	% 90 non condensed	
Acoustic Noise	< 50 dB	

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