

STATIC VOLTAGE STABILIZER 1/1 PHASE 5-50 KVA

ORION 1000-STC voltage regulators are designed to protect sensitive equipment by stabilizing mains voltage and eliminating overvoltage, undervoltage, and network imbalances. With electronically controlled regulation, they ensure a consistent and reliable output voltage under fluctuating supply conditions.

When voltage levels exceed the adjustment range, the regulator automatically disconnects the output through an electromechanical mechanism, preventing potential damage to connected loads. This combination of fast electronic protection and secure disconnection provides dependable performance, extended equipment life, and uninterrupted operation for everyday applications.

GENERAL SPECIFICATIONS

- Maintenance-free thyristor-based static technology
- Microprocessor-controlled digital regulation
- Clear and user-friendly LCD interface
- Ultra-fast response time of 20 ms
- Continuous protection against voltage fluctuations
- Integrated protection against overload, over-temperature, and abnormal voltage levels
- High efficiency across the entire power range
- Robust industrial-grade design
- Wide input voltage operating range
- Static and manual bypass functionality
- Advanced communication and remote monitoring support



APPLICATIONS



1:1 PHASE STATIC

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MODEL	ORION 1005-STC	ORION 10075-STC	ORION 1010-STC	ORION 1015-STC	ORION 1020-STC	ORION 1030-STC	ORION 1040-STC	ORION 1050-STC
General								
Nominal Power (kVA)	5	7,5	10	15	20	30	40	50
Technology	Thyristor (SCR) Technology, Microprocessor controlled, High Speed Regulation							
Efficiency	> 97% (typical)							
Mechanical Bypass	Available							
Display	Graphical Icd screen							
Communication (Optional)	RS485, SNMP, Relay Contacts, Modbus							
Emergency Power Off (Optional)	Available							
Accessories (Optional)	Remote Monitoring Panel							
Input								
Input Voltage	220, 230, 240 Vac 1 Ph + N							
Voltage tolerance	(-25)% (+20)% (-35)% (+15)% (optional) (-50)% (+15)% (optional)							
Frequency	50 / 60 Hz (±5%)							
Output								
Output Voltage	220, 230, 240 Vac 1Ph + N ±3%							
Voltage Correction Speed	%2>175V/sec / %3>275V/sec / %5>500V/sec							
Overload	150% 1 Minute							
Respond Time	20 msec.							
Protection	Short circuit, over load, over current, electronic and fuse protection							
Protections								
Voltage Protection	Electronic protection for Low Voltage and High Voltage							
Current Protection	Input Circuit Breaker or Input Fuses							
Temperature Protection	Electronic Over Temperature Protection							
Short Circuit Protection	Available							
Surge Protection	Surge Arrester Class-I or Class-II (optional)							
Enviromental								
Operating Temperature	-10°C - 40°C							
Storage Temperature	-25°C+ 60°C							
Relative Humidity	< 95% (DIN 40040)							
Noise (@ 1 Meter)	<55 dBA							
Altitude	< 1500m							
Protection Class	IP 20 (Higher Ratings are Optional)							
Physical								
Dimensions H x W x D (Cm)	30 x 70 x 81							
Net Weight (Kg)	30	33	38	50	55	65	80	85