

ELSRV1_WF

SINGLE PHASE 5KVA ÷ 50kVA

Single-phase electromechanical voltage stabilizers

Wi-Fi remote control as standard

Compatible with PV systems

TECHNICAL SPECIFICATION



models up to 10kVA

SINGLE-PHASE ELECTROMECHANICAL STABILIZERS ELSRV1_WF from 5 to 50KVA

ELSRV stabilizers deliver a constant voltage by automatically correcting voltage drops and rises that occur on the mains or in the internal structure of the electrical system. Our voltage regulators work automatically to regulate the voltage without any user intervention. Once the regulator is switched on, the mains voltage is measured continuously and the necessary raising/lowering operations are carried out automatically, providing the system with the constant voltage required for proper operation. The servo controllers consist of a variator, a servomotor that controls the variator, a multimeter with electronic management that controls the motor and the booster transformer. The motor's high torque corrects quickly thanks to the control system that can respond quickly to voltage changes. When the regulation has been completed, the servo motor is de-energized with an electronic braking circuit. Electrical and transient disturbances do not disturb the regulation. È It is possible to safely supply any area that needs a regular power supply without any problems.

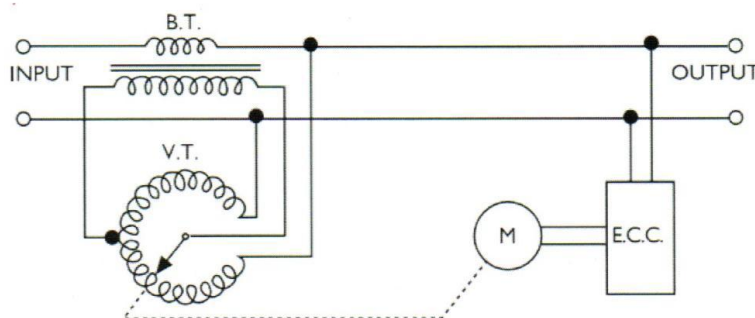


models with >15kVA power

The new ELSRV1 stabilizers offer features such as:

- *Free movement of PV electricity to the electricity grid*
- *Protection of the user from dangerous or harmful voltages.*
- *Protect you and your device from excessive currents.*
- *Pure sinus RMS tension regulation.*
- *Extended overload protection and instant protection.*
- *Balance AC voltage with extreme precision.*
- *It works smoothly on all loads from 0% to 100%.*
- *Manual switching to bypass mode without adjustment.*
- *Static, non-gradual, dynamically corrected output voltage.*
- *The standard regulation is $\pm 1.5\%$ (227.7V -232.3V) stable when the input voltage is within the range*
- *WIFI remote control system as standard*

SINGLE-PHASE ELECTROMECHANICAL STABILIZERS – OPERATING PRINCIPLE



WI-FI CONNECTION

The wi-fi monitoring system exercises the function of monitoring and managing the system via APP and wi-fi network.

Features:

The Wi-Fi smart tool connects the device via the home Wi-Fi network, unlimited distance with the Tuya and Smartlife apps, is compatible with Amazon Alexa and Google Assistant; It enables real-time display of power, current, voltage, losses, frequency, cumulative power, and other types of data. TWO-WAY MEASUREMENT.

Protection against over-under voltages, overcurrents, leakage, with setting of current thresholds, maximum and minimum voltage, leakage via App. The App also allows you to set timers, scheduled or cyclical switching on and off, scheduled shutdown after switching on, ignition delay after the events that cause the trip.



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

SINGLE-PHASE ELECTROMECHANICAL VOLTAGE STABILIZERS

ELSRV1 from 5 to 50KVA

MODEL ELSRV1xxWF	05	07	10	15	20	25	30	40	50
KVA Power	5	7.5	10	15	20	25	30	40	50
Power Factor	1.0								
INPUT									
Rated voltage	230Vac 1ph + N								
Input voltage range	172Vac ~ 265Vac								
Input Frequency	45 ~ 66 Hz								
Max Input Current A	29	43	58	87	116	145	174	232	290
OUTPUT									
Output voltage	230V (optional 220/240Vac to be selected when ordering)								
Output Accuracy	± 1.5%								
Overload capacity	100÷110% load – 30', 110÷120% load – 10', 120÷150% load – 1', 150÷200% load – 10"								
Speed adjustment	90V / sec								
Output current A	21	32	43	65	86	108	130	173	217
PROTECTIONS									
Input Protection	Circuit breaker			NH fuse inside the structure					
Output Protections	Low-high voltage								
	Wifi system: high/low voltage, overcurrent, frequency protection								
By-Pass	Manual by-pass included								
OTHER DATA									
Communication	WIFI with Tuya app, Smartlife, compatible with Alexa, Google Assistant								
Colour	RAL7035 (other colours available on request)								
Yield	min. 98%								
Cooling	Side forced ventilation								
Protection class	IP21 (IP44 optional)								
Ambient Temp. Max.	-15° C ~ +40° C								
Altitude	Up to 1000 m a.s.l. without derating								
Relative humidity	< 95% (non-condensing)								
Sound pressure	< 50dB at 1m								
Version	benchtop			Tower with pivoting wheels					
Dimensions WxDxH cm	53x40x30		60x40x32	50x54x85			65x65x85		60x60x105
Weight kg	25	30	35	60	75	110	130	150	170

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