

STATIC VAR GENERATOR



ONESTO
ENERGY

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ONESTO Energy is a manufacturer and distributor of equipment and devices for the power industry, with 19 years of experience in the global market.

ONESTO Energy is a company where quality, reliability, and a guarantee of good cooperation and customer satisfaction are the top priorities. The products of **ONESTO Energy** comply with applicable regulations and standards, including international standards such as BS, EN, and IEC, and hold the necessary tests and certifications: CE, CB, UKCA, SAA, TUV, MEEI, Semko, and KEMA-KEUR.

ONESTO Energy owns a factory where production lines have been operating reliably for many years. The devices and apparatus for the power industry meet all the criteria important to our customers. **ONESTO Energy** has implemented an advanced EPR system to achieve full quality tracking at every stage of production.

ONESTO Energy is committed to continuously developing its products and expanding its product range. We introduce innovative solutions to the market to provide our customers with a comprehensive selection of products essential for commercial, industrial, and renewable energy projects. **ONESTO Energy** holds independent ownership rights to its products as well as national and international patents.

Currently, customers in over 60 countries benefit from **ONESTO Energy** products and solutions, ensuring the reliable operation of power systems. As a well-recognized partner of renowned companies worldwide, **ONESTO Energy** is ready to create new value and competitive advantages together with partners for mutual and continuous development.

STATIC VAR GENERATOR

PRODUCT DESCRIPTION



The modular SVG reactive power compensator is a device that allows compensation of both inductive and capacitive reactive power using a single module.

The modular SVG reactive power compensator ensures the maintenance of a set power factor parameter and allows for dynamic changes in power factor values (thanks to a fast response time of less than 10ms). The use of SVG also helps filter disturbances introduced into the power grid, balance loads, reduce power losses, and extend the lifespan of electrical devices by improving electrical energy parameters.

The modular SVG reactive power compensator is used in low-voltage networks ranging from 200V to 800V.

STATIC VAR GENERATOR

TECHNICAL DATA

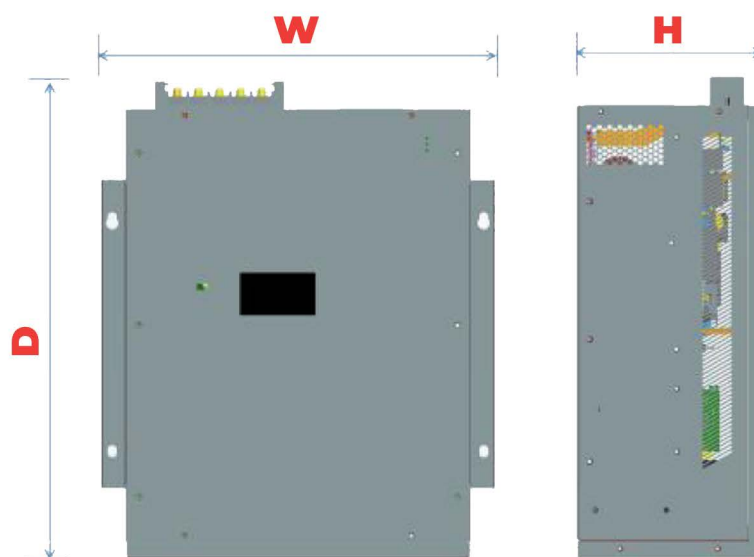
Voltage range	AC 400 V (-10% ~ + 10%)	AC 800 V
Operating frequency	50 Hz±5%	50 Hz±5%
Type of power network	Three-phase 3-wire / 4-wire	Three-phase 3-wire / 4-wire
Device response time	<10 ms	<10 ms
Reactive power compensation capacity	10-100 kVar	120 kVar
Reactive power compensation factor	>95%	>95%
Compensation efficiency	>97%	>97%
Power loss at maximum load	<180W	<180W
Switching frequency	16 kHz	16 kHz
Function selection	Harmonic and reactive power compensation	Harmonic and reactive power compensation
Number of modules in parallel operation	No limitations	No limitations
Communication protocols	Dual-channel RS485 interface	Dual-channel RS485 interface
Installation height / Operating temperature	<2000 m above sea level / -20 ÷ +50°C	<2000 m above sea level / -20 ÷ +50°C
Permissible humidity	<90% RH, at min. temperature: 25°C (without condensation on surfaces)	<90% RH, at min. temperature: 25°C (without condensation on surfaces)
Protection	Overvoltage, overcurrent, frequency, short circuit, etc.	Overvoltage, overcurrent, frequency, short circuit, etc.
Noise level	<56 dB	<56 dB
Installation	Wall-mounted / standing	Wall-mounted / standing
Protection rating	IP20	IP20

The reliability of the devices has been confirmed through numerous tests. The compensators meet the highest quality standards and hold the necessary certifications. The manufacturer's warranty is 24 months, with the possibility of extension to 5 years.

The installation of compensators should take place in a designated area for electrical devices, following all technical regulations in accordance with the requirements of electrical networks of the respective voltage. To ensure proper operation of the compensators, the appropriate network and device parameters must be selected.

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DIMENSIONS



RATED VOLTAGE	400V		
Capacity (kVar)	10kVar	15kVar	20kVar
Dimensions (mm)	230x365x88	230x365x88	230x365x88

RATED VOLTAGE	400V					800V
Capacity (kVar)	35kVar	50kVar	75kVar	100kVar	150kVar	120kVar
Dimensions (mm)	378x525x200	418x556x200	503x611x232	573x621x250	694x680x250	588x662x250



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