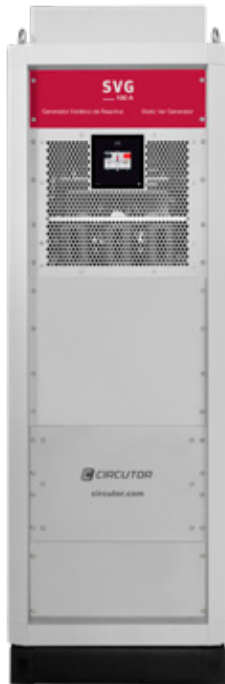
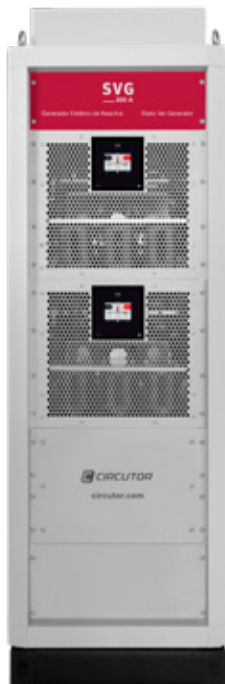


SVG

100 / 200 kVAr



SVG-3WF-100k-480*



SVG-3WF-200k-480

Static Var Generator

Description

SVG Static Var Generator are the most accurate reactive power compensation solution, for both unbalanced three-phase systems and facilities with inductive and capacitive reactive power. It can be used in three-phase industrial, commercial or service installations and is not affected by the harmonics of the installation. A system with greater safety and very little maintenance. In this series, the racks are mounted in the standard cabinets available on the market and are designed for ease of installation.

The following features and functions are implemented:

- Reactive power compensation (inductive/capacitive) of 100 to 200 kVAr per cabinet
- Compact rack-type module for ease of installation in standard cabinets.
- Voltage and frequency multi-range (50/60 Hz)
- Immunity to harmonic currents.
- $\cos\varphi$ range of 0.7 inductive...1...0.7 capacitive.
- Online operation monitoring
- Protection module included

If higher power factor correction capacities are required, up to 100 units can be connected in parallel*.

Application

The perfect solution for individual loads or facilities with a large number of single-phase or three-phase loads, both inductive and capacitive. Also for facilities where the load fluctuates over short periods of time, e.g. loads from bridge cranes, welding kits, lifts, drilling/grinding operations, and data centres.

Technical features

Network voltage	Voltage	230 - 480 V phase-phase +/- 10%
	Frequency	50/60 Hz +/- 5%
	Maximum THDv	25%
Power		SVG-3WM-100k-480 / SVG-3WF-200k-480
	Maximum consumption	4000 W / 8000 W
	Maximum reactive power	100 kVAr / 200 kVAr
	Maximum current (phase)	145 Arms / 290 Arms
Current measurement	Type	3 or 2x transformer: 5/5 A ... 5000/5 A Class 1 or higher (0.5 – 0.2- 0.2 S)
		Frequency response up to 2500 Hz / 3000 Hz (60 Hz)
	Consumption	1.5 VA per transformer

SVG

100 / 200 kVAr

Static Var Generator

Features	Power factor correction	Adjustable, target 0.7 inductive...0.7 capacitive
	Parallel installation	<ul style="list-style-type: none"> •Up to 100 devices/racks (SVG 100 kVAr) •Up to 50 devices/racks (SVG 200 kVAr) •Connection of CTs, only to the "master" unit Advanced processing algorithm: <ul style="list-style-type: none"> •Maximisation of the working life of units (alternating unit operation). •Maximisation of the operating efficiency (only required filters are activated). •Allows redundancy (system operation in the event of unit failure).
	User interface	Colour 3.5" touch screen Web server and datalogger
	RS-485	Modbus RTU 9600 Stop 1 Parity None
	Ethernet	TCP/IP Modbus TCP
Installation	Installation category	CAT III 300V
	Pollution degree	2
	Operating temperature	-10°C...45°C
	Storage temperature	-20°C...50°C
	Relative humidity	0...90% (without condensation)
	Maximum altitude	2000 m
	Degree of protection	IP21 (or other degrees of protection on request)
Connection	Grid	End sleeve of 35 mm ² . Tightening torque 6 Nm.
	CTs	6-pole connector. Maximum conductor cross-section 2.5 mm ² . Tightening torque < 0.8 Nm
	RS-485	3-pole connector. Maximum conductor cross-section 2.5 mm ² . Tightening torque 0.5-0.6 Nm
	Ethernet	RJ45
Build features	Dimensions	600 x 1836 x 822 (width x height x depth)
	Weight	SVG-3WF-100k-480 Weight 206 kg SVG-3WF-200k-480 Weight 276 kg
	Noise	< 65 dBA
Standards	EN 62477-1:2012, EN 55011:2011, EN 61000-6-2:2006, EN 61000-6-4:2007, IEC 61439-1:2011	

References

Type	Code	Phase current (A)	Total reactive power (kVAr)	EMI filter
SVG-3WF-100k-480	R7NST5	145	100	•
SVG-3WF-200k-480	R7NST7	290	200	•

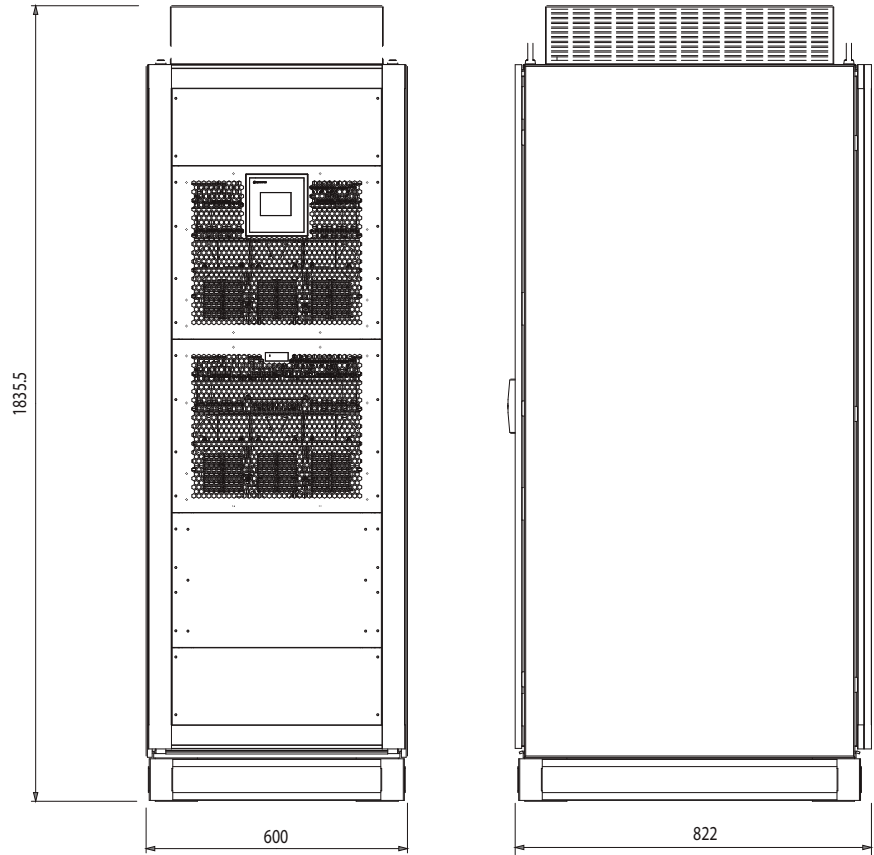
SVG

100 / 200 kVAr

Static Var Generator

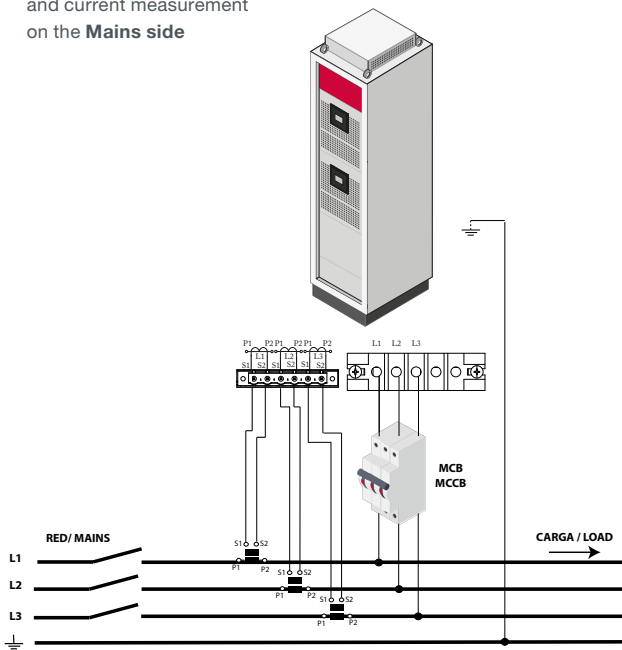
Dimensions

- SVG-3WF-100k-480
- SVG-3WF-200k-480



Connections

Three-phase measuring with 3-wire connection and current measurement on the **Mains side**



Three-phase measuring with 3-wire connection and current measurement on the **Load side**

