



POWER FACTOR CORRECTION

## **SVGm**

Static var generator for power factor correction





#### The most accurate power factor correction solution.

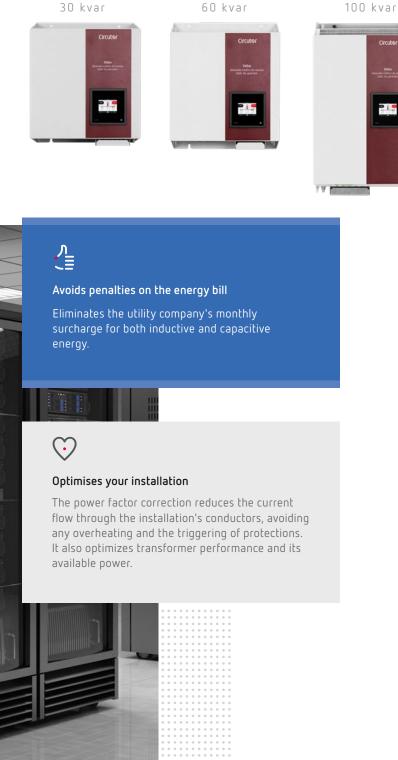
The **SVGm** static var generator is a device based on power electronics to correct installations with both inductive and capacitive reactive energy consumption. Specially designed to instantly compensate by adjusting demand in milliseconds, both in balanced and unbalanced systems in installations with or without neutral (three or four wires).

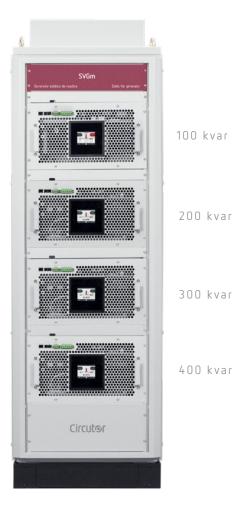
This makes the SVGm the ideal solution for use in networks with fast load variations where instant correction is required to guarantee a target  $\cos \varphi$ , avoiding any kind of penalty in the electricity bill due to reactive consumption.

The **SVGm**'s power factor correction technology, based on the use of semiconductors, guarantees the device's correct operation regardless of the level of harmonic distortion in the network to which it will be connected, guaranteeing no wear on its components.



# **SVGm** corrects your installation's power factor, helping to save energy in two ways.

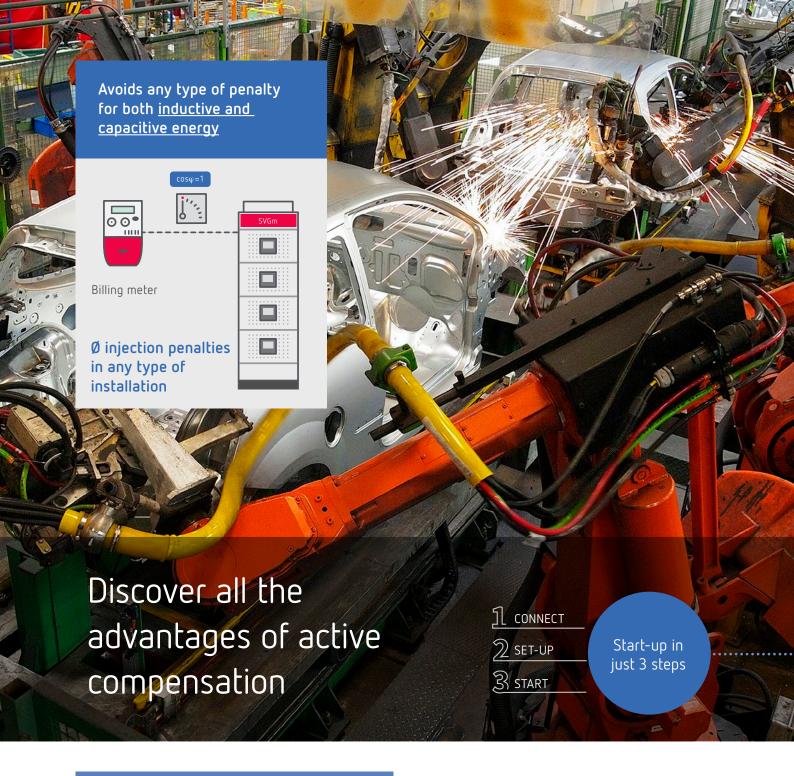


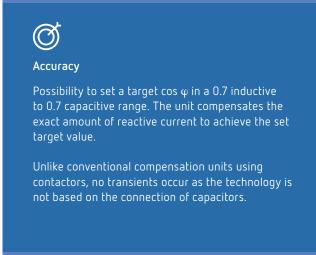


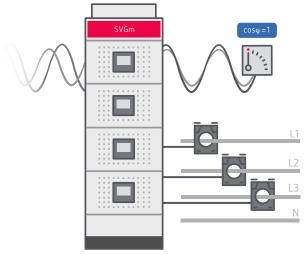
#### A complete product family

Connects up to 100 devices in parallel, using any combination of models, to obtain the power required by the installation. Its modular system allows expansion in a simple, convenient way.

Its "Master/Slave" system enables all devices to be directly controlled from the master module, automatically managing all its slaves without the need for configuration.

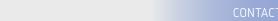






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THYRISTORS

**IGBT** 



### Speed

**SVGm** operates using the most cutting-edge technology. With a response time under 20ms. The device is designed to instantly compensate networks where consumption is highly variable.

Built-in IGBT technology for fast power factor correction

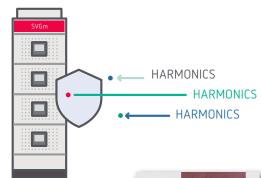


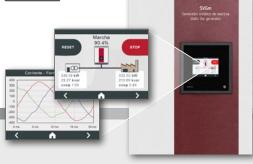
#### Immunity and maintenance

**SVGm** uses power electronics to correct the power factor. As there are no passive elements, the device can be installed in any type of network with a high harmonic current presence without affecting its performance.

The **SVGm** operates without mechanical components, thereby avoiding maintenance and replacement of components.









#### Simple, quick installation

The unit starts compensating in just 3 steps. The initial configuration can be carried out either on-site using the touchscreen or remotely via communications.

#### Interaction with the device via touch screen

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The status of the compensation and the electrical parameters can be displayed on the screen, using colour diagrams and graphs for a simplified interpretation and an instantaneous reading of the unit's operating condition.

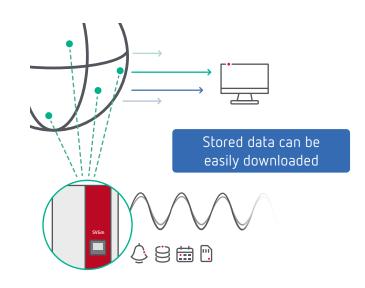


#### Remote management

**SVGm** includes a datalogger for alarm logging and storage of basic electrical parameter readouts.

Up to 7 years of data logging stored in its 2 Gb memory, ready for download via integrated web server.

It features Ethernet connectivity for a comprehensive management of the unit, whether locally or remotely; to access logs stored on the memory; and to configure it and start it up. The web server is accessed from any browser, via a mobile device or PC.



# The safety of your installation is paramount

## Safety

- Automatic power regulation system based on the detected temperature, aimed at protecting the unit in maximum operating conditions.
- > Auto-diagnosis system guaranteeing a safe start-up.
- In the event of fault detection, **SVGm** will switch to safe mode to prevent damage to the device and record the alarm in its memory.
- The ventilation system is adjusted automatically according to the temperature detected by its sensors.
- > Alarm log queried via screen or communications.

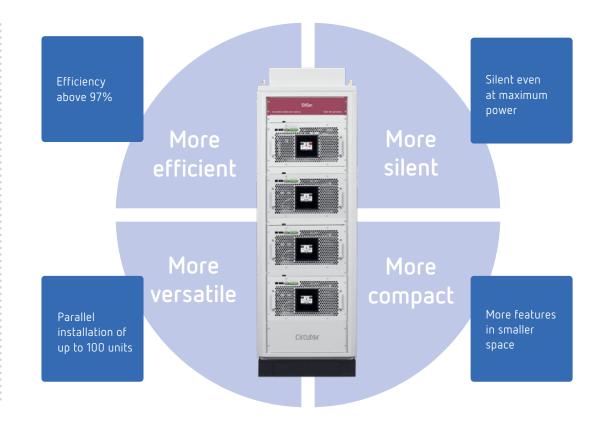












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### Applications

- Its characteristics make the SVGm a multipurpose device that can be installed in a wide range of applications, both at an industrial level and in the service or infrastructure sectors.
- Industrial furnaces, welding equipment, electric motors with frequency drives, telecommunications infrastructures, hospitals or airports (lifts and escalators), data centres, paper industry, electric generators...























References

References					
Description	Code	System	Q (kvar)	Maximum current (A)	Size mm. (width x height x depth)
Wall mount assembly (wall)					
SVGm-3WF-030M-480	R4P3M0.	3 wires; 230480V	30	44	430 x 530 x 178
SVGm-3WF-060M-480	R4P3M1.	3 wires; 230480V	60	88	430 x 530 x 348
SVGm-3WF-100M-480	R4P3M2.	3 wires; 230480V	100	145	439 x 745 x 288
SVGm-4WF-030M-400	R4P4M0.	4 wires; 230400V	20,7	30	430 x 530 x 178
SVGm-4WF-060M-400	R4P4M1.	4 wires; 230400V	41,4	60	430 x 530 x 348
SVGm-4WF-100M-400	R4P4M2.	4 wires; 230400V	69	100	439 x 745 x 288
Floor assembly cabinet					
SVGm-3WF-100C-480	R4P3F2.	3 wires; 230480V	100	145	608 x 1890 x 812
SVGm-3WF-200C-480	R4P3F3.	3 wires; 230480V	200	290	608 x 1890x 812
SVGm-3WF-300C-480	R4P3F4.	3 wires; 230480V	300	435	608 x 1890 x 812
SVGm-3WF-400C-480	R4P3F5.	3 wires; 230480V	400	580	608 x 1890 x 812
SVGm-4WF-100C-400	R4P4F2.	4 wires; 230400V	69	100	608 x 1890 x 812
SVGm-4WF-200C-400	R4P4F3.	4 wires; 230400V	138	200	608 x 1890 x 812
SVGm-4WF-300C-400	R4P4F4.	4 wires; 230400V	207	300	608 x 1890 x 812
SVGm-4WF-400C-400	R4P4F5.	4 wires; 230400V	276	400	608 x 1890 x 812
RACK module for cabinet					
SVGm-3WF-100R-480	R4P3R2.	3 wires; 230480V	100	145	482.5 x 265.9 x 714.5
SVGm-4WF-100R-400	R4P4R2.	4 wires; 230400V	69	100	482.5 x 265.9 x 714.5





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