

Static Var Generator SFR-SVG



Various application



Excellent filtering performance



Excellent protection for equipment and system



User-friendly HMI



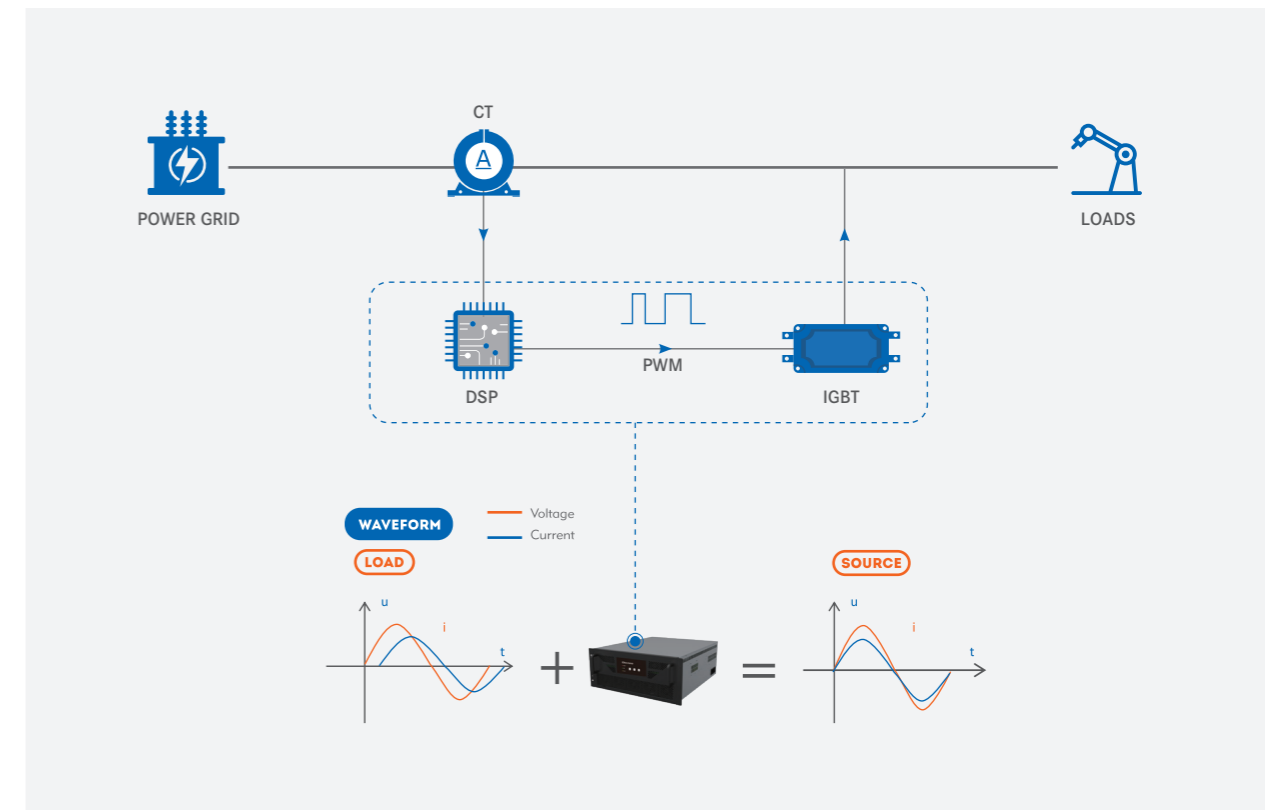
Rack-mounted

Wall-mounted

SFR-SVG is a new-generation product of Static Var Generator(SVG), it used the latest technology application for the reactive power compensation. When the SFR-SVG parallel in the grid, it equalized as a dynamic reactive current source. The reactive current of the SVG could be flexibly controlled and compensate the reactive power automatically .

Overview

The SVG acquires the current signal of the load by the CT, the DSP tracks the command current in quick than calculate the reactive power rate of change by intelligent algorithm as to send the data to the IGBT by PWM signal. Finally the inductive or conductive power compensation current is generated on the inverter to achieve the real-time dynamic reactive power compensation.



Model Description

SFR-SVG ₁ / ₂ - ₃ / ₄ ₅

Annotation:

- 1** Model of the manufacturer
- 2** Wiring mode:
3-Three-phase three-wire
4-Three-phase four-wire
- 3** Compensation capacity(kvar):
10/30/50/75/100kvar
- 4** Voltage level(kV)
- 5** Installation mode:
M-Rack-mounted type, B-Wall-mounted type

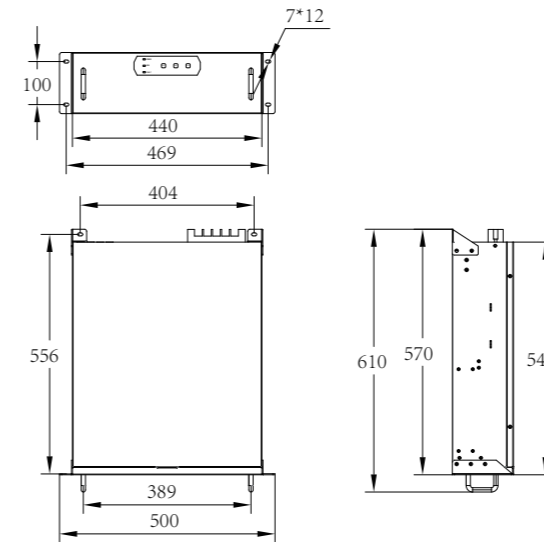
Technical Parameter

Item	Parameter			
SFR-SVG	Grid	208V, 400V, 3P3W/3P4W*		
	Mounting Type	Wall-mounted	Rack-mounted	
System	Rated Input	208V, 400V ±10%		
	Power Grid Frequency	50/60Hz ±5%		
	Parallel Operation	8 modules, customizable		
	Overall Efficiency	≥97%(laboratory data)		
	Circuit Topology	3-level		
Performance Indicators	Rated Capacity	10-100kvar	75kvar/ 100kvar	
	Loss Of Active Power	<3% rated module power		
	Over-load Capability	120%		
	Mean Time Between Failures	≥100,000 hours		
	Reaction Time	<100μs		
	Response Time	10ms		
	Scope Of Reactive	Continuously adjustable from rated induced to rated capacitive		
	Adjustment	Compensation algorithm of screening vector of frequency domain possessing self-adaptation capability		
	Control Algorithm	FFT, Intelligent FFT and instantaneous reactive power		
	Control Algorithm	20kHz		
	Switching Frequency	Forced air cooling		
	Cooling Mode	≤65dB		
	Communications & Display	Communications Port	RS485	
		Communications Protocol	Modbus-RTU	
		Module Display Interface	4.3in LCD	LED indicator
Monitoring Alarm		Available		
Monitoring		Independent monitoring and centralized monitoring		
Ambient Standards	Altitude	1,000m, for every increased 100m, the power is reduced by 1%.		
	Operating Temperature	-20°C-45°C		
	Relative Humidity	5% to 95%,non-condensing		
Related Standards	Protection Class	IP20		
	Directive	2014/30/EU 2014/35/EU		
Standards Compliance	EN 61000-6-2:2005+AC:2005 EN 61000-6-4:2007+A1:2011 EN 50178:1997 IEEE519			

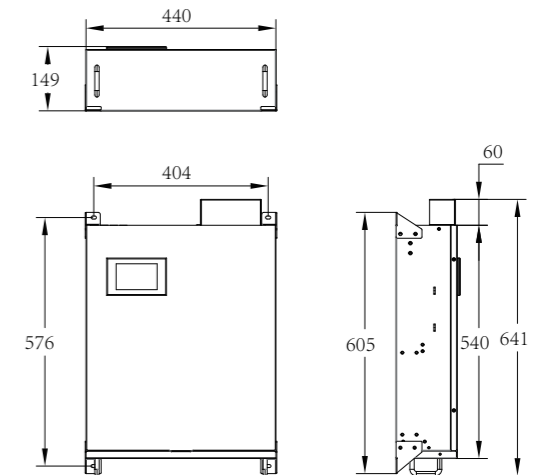
*: Please check other voltage levels, such as 480V, in the specifications of user manual.

Dimensions

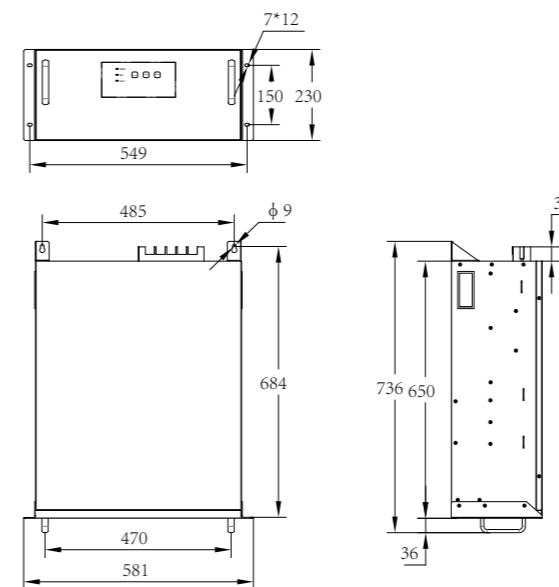
36-50kvar Rack-mounted



36-50kvar Wall-mounted



51-100kvar Rack-mounted



51-100kvar Wall-mounted

