# Static Var Generator SFR-SVG Cabinet

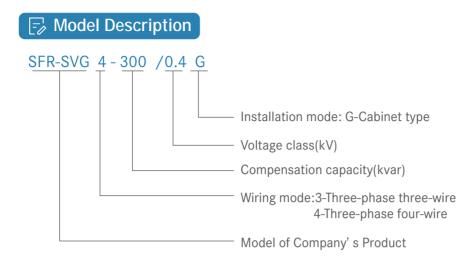
#### Overview

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.



## Advantages

- Modular design, easy to expand
- 7"/10" inch LCD touch screen
- Before/After compensationcomparison on LCD display
- Support anti-harmonic function to ensure system safety
- Dynamic continuous smooth compensation
- Current source characteristics
- Solve the imbalance problem synchronously
- It can compensate harmonic wave dynamically while compensating reactive power
- Total response time < 5ms and faster control
- Excellent protection for equipment and system
- Supports parallel connection of modules with different capacities
- The protection level can be customized, adapt to various environments



## Model Selection

### Table of Rapid Model Checking of SVG

Transformer Capacity (Kvar)	Three-phase Four-wire	Three-phase Three-wire	
200	SFR-SVG4-100/0.4×1	SFR-SVG3-100/0.4×1	
250/315	SFR-SVG4-100/0.4×1	SFR-SVG3-100/0.4×1	
400	SFR-SVG4-150/0.4×1	SFR-SVG3-200/0.4×1	
500/630	SFR-SVG4-200/0.4×1	SFR-SVG3-300/0.4 ×1	
800	SFR-SVG4-250/0.4×1	SFR-SVG3-400/0.4 ×1	
1000	SFR-SVG4-300/0.4×1	SFR-SVG3-500/0.4×1	
1250	SFR-SVG4-400/0.4×1	SFR-SVG3-300/0.4 ×2	
1600	SFR-SVG4-250/0.4×2	SFR-SVG3-400/0.4 ×2	
2000	SFR-SVG4-300/0.4×2	SFR-SVG3-500/0.4 ×2	
2500	SFR-SVG4-400/0.4	SFR-SVG3-400/0.4 ×3	
Scope of Application	Business center, office building, hotel, hospital, data center, theater and other occasions with relatively much single-phase load.	Chemical, metallurgy, communication, textile, papermaking, printing, tobacco, automobile,port and other occasions with relatively much three-phase load.	

Note: Types M,B and G can be selected according to field situation.

## III Technical Parameter

Item		Parameter		
SFR-APF	Grid	400V 3P3W/3P4W	690V 3P3W	
	Mounting Type	Cabinet	Cabinet	
System	Rated Input	400V LL ±15%	690V LL ±15%	
	Power Grid Frequency	50/60Hz ±5%		
	Parallel Operation	8 modules, customizable		
	Overall Efficiency	≥97%(laboratory data)		
	Circuit Topology	3-level		
	Rated Capacity	Up to 400A	Up to 500A	
	Loss Of Active Power	<3% rated module power		
	Over-load Capability	120%		
	Mean Time Between Failures	≥100,000 hours		
	Reaction Time	<100µs		
	Response Time	5ms		
	Scope Of Reactive Adjustment	Continuously adjustable from rated induced to rated capacitive		
	Control Algorithm	Compensation algorithm of screening vector of frequency domain possessing self-adaptation capability		
	Switching Frequency	20kHz		
	Cooling Mode	Forced air cooling		
	Noise Level	≤65dB		
Communications and Monitoring	Communications Port			
	Communications Protocol	Modbus-RTU		
	Module Display Interface	7in/10in LCD touch screen(optional)		
	Monitoring Alarm	Available		
	Monitoring	Independent monitoring and centralized monitoring		
Mechanical Properties	Net Weight	150kg-400kg	230kg-600kg	
	Dimensions (W*D*H mm³)	800×800×2200 1000×800×2200 1000×1000×2200	800×800×2200 1000×800×2200 1500×800×2200	
Environment Requirements	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		
	Protection Class	IP20(customizable)		
Related Standards	Directive	2014/30/EU 2014/35/EU		
	Standards Compliance	EN 61000-6-2:2005+AC:2005 EN 61000-6-4:2007+A1:2011 EN 50178:199		