

Electrical Specification	
Rated Voltage	AC 400V
Electric Connection	3P3W/3P4W
Rated Frequency	50Hz (60Hz) +/- 10%
Rated Current per Module	30Kvar,50Kvar, 75Kvar, 100kvar,150kvar
Rated Current per Cabinet	30~600Kvar (module combination)
Redundancy	Each module is an independent reactive compensation system
Compensation Mode	Compensate Harmonics, Reactive Power, Phase imbalance
Reactive Power Compensation Performance	$\text{Cos}\phi \geq 0.99$ after compensation (if the SVG capacity is sufficient)
Reactive Power Compensation Capability	Both inductive and capacitive reactive power compensation
Harmonic Filtering Performance	Filter up to 98% harmonics at rated load
Imbalance Correction Capability	Mitigate negative and zero sequence
Full Response time	<5ms
Instant Response time	<100us
Thermal Loss	$\leq 3\%$ of SVG rated capacity (kVA)
Output Current Limitation	Automatic (100% rated capacity)
Parallel Expansion(System)	Up to 10 Racks(4 modules per cabinet)
MTBF	>100,000 hours
Control Technology	
Switching Frequency	30kHz
Controller	DSP IGBT FPGA control
Communication	Modbus Protocol, RS232/485
Monitoring	ZDDQ HMI Monitor Software (Optional)
Physical Specification	
IP Grade of Cabinet	IP2X or customization
Cooling method	Intelligent forced air cooling
Noise Level	< 65dB(A) @1m (Module)
Dimension	Refer to SVG Model table
Weight	Refer to SVG Model table
Environmental Requirement	
Ambient Temperature	-10~50 °C
Relative Humidity	0~95%
Altitude	$\leq 1000\text{m}$ Rated Capacity,
	1000-2000m (derating 1% per 100m)