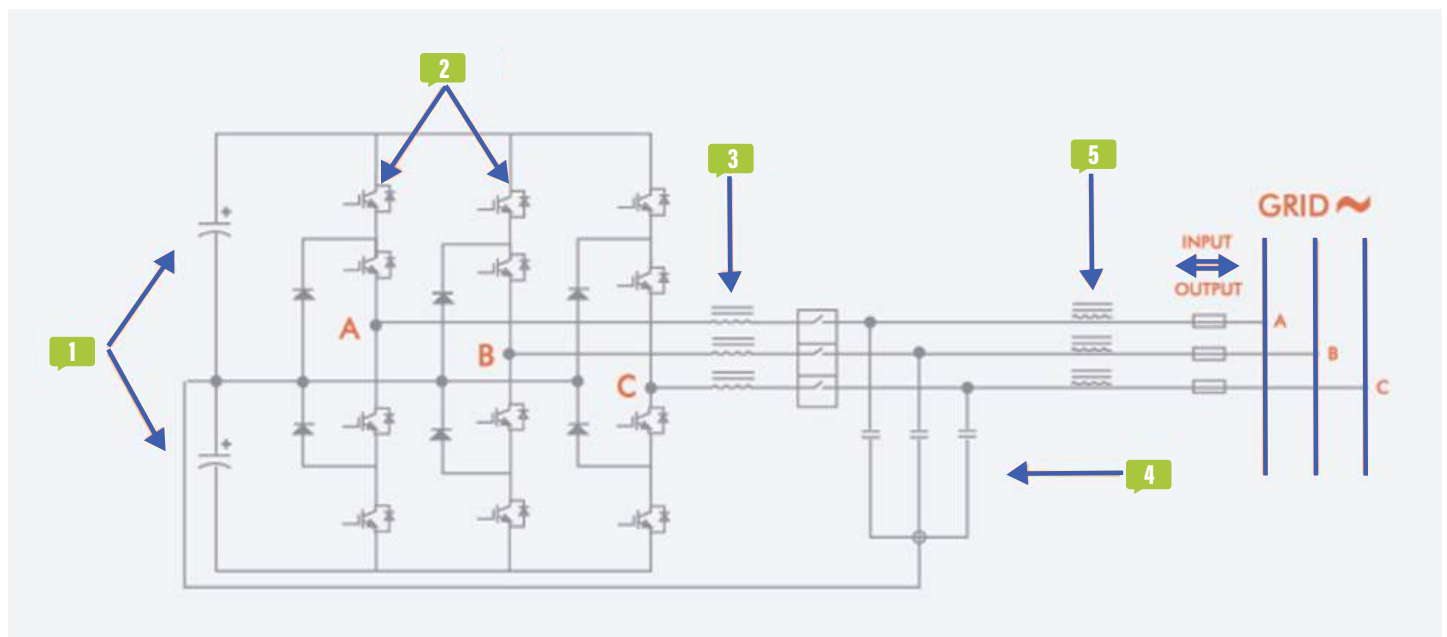


Product Capacity		15kvar	25kvar	30kvar	50kvar	75kvar	100kvar	150kvar
Network	220V	■	■	■	■	—	—	—
	400V	—	—	■	■	■	■	■
	480V	—	—	—	■	—	■	—

How SVG compensate reactive power

IGBT on-off timing selection and length could control inverter to generate an accurate reactive power compensation current. IGBT compensating inductive reactive power or capacitive reactive power by controlling inverter induction to generate a capacitive current or inductive current to achieve bidirectional reactive power compensation. LC filter circuit and high frequency inductor both are for filtering. The combination of LC filter circuit and high frequency inductor are call LCL filter circuit.



ADVANTAGES & BENEFITS

- Suitable for use in Harmonics loaded Network
- Avoid penalty for low PF by Utility Company, reduce energy bill
- Reduce electric energy loss
- Respond dynamically to reactive power from Leading to Lagging condition
- Stepless compensation
- Fast response time 20ms to full compensation

SPECIFICATION

Items	220V	400V	480V
Rated capacity	15/25/30/50 kVar	30/50/75/100/150 kvar	50/100 kvar
System parameters			
Rated Voltage	220V(176V~264V)	380V(228V~456V)	480V(380V~690V)
Rated Frequency	50Hz/60Hz (-10% ~ +10%)		
Parallel quantities	Each HMI available for 10 Units, HMI Paralled connection not limited		
Wiring	3P3W/3P4W		
Performance Indicator			
Function	Reactive power compensation, Unbalance compensation, Harmonic compensation		
Control algorithm	FFT/Interlligent FFT/Instantaneous Reactive Power		
Harmonic Filtering	2nd to 13th Odd orders		
Performance	≥97%		
Reaction time	<50μs		
Overall response time	<10ms		
Target power factor	adjust from -1 to +1		
Noise level	<60 dB		
Communication & Display			
Interface	RS485		
Communication	MODBUS-RTU		
Display	4"LCD display on wall mounted module, 7"HMI for rack mounted module parallel connection		
Protection	Over 20 kinds of protections such as over-voltage, under-voltage, overheating, over-current, short circuit, etc.		
Fault alarm	Up to 500 Alarm event records		
Net Weight	13kg(30kVar); 24kg(50kVar); 38kg(100kVar); 45kg(150kVar)		
Mechanical Feature			
Installation	Wall mount/Rack mount/ Floor stand cabinet		
Dimension (W*D*H)mm	220V Wall/Rack mount 15/25kvar	480*130*440	
	220V Wall/Rack mount 30/50kvar	480*200*530	
	400V Wall/Rack mount 30/75kvar	480*200*530	
	400V Wall/Rack mount 100/150kvar	680*200*530	
	480V Wall/Rack mount 50/100kVar	680*200*580	
	220V/400V/480V Floor Stand Cabinet	1000*1000*2000mm or by Customized	
Color	Grey/Black, Cabinet color can be customized		
Altitude	≥1500m, Between 1,500m to 4000m, derating 1% every additional 100m		
Ambient temperature	-20℃~40℃		
Relative humidity	5~95%, non-condensing		
IP Grade	Wall mount module : IP 20; Floor Stand: IP41		
Certification & Standard			
Certification	CE		
Standard complication	IEEE519, IEC61000		