


HK Medium Voltage SVG (Static VAR Generator)



Hiconics HK Medium Voltage SVG are widely used industries and fields such as power distribution network, wind power, photovoltaic, metallurgy, coal, electrified railway, port, subway, enterprises in various working conditions. Integrate the three functions of reactive power compensation (SVG), harmonic compensation (APF), and unbalance compensation (LBC). It can be used to improve system voltage stability, damping power oscillation, improve power factor, voltage flicker, compensation and unbalanced load harmonic current and improve power quality, reduce the loss of power. Hiconics's SVG has following features and functions:

- Simultaneously realizing dynamic reactive power compensation, harmonic current compensation and unbalanced load compensation
- Multiple control modes that can be configured on site
- Medium voltage, low voltage and frequency ride-through control in case of grid faults
- Electronic + contact blocking automatic bypass redundancy function
- A complete set of FC filter bank can be provided

Topology	
Power Side Compensation Function	AVC, Constant Var/Constant Voltage control, Constant Power Factor, Comprehensive Voltage Var Control, Transient Voltage Control, HV/LV & Frequency Ride-through Control, Subsynchronous Resonance Suppression Control
Load Side Compensation Function	Load Tracking Compensation Power Factor Control Harmonics Current Compensation(2nd~25th) Unbalance Load Compensation
Type	Multi-level, cell-cascaded, VSI
Rated Capacity	1~200Mvar
Response Time	< 10ms
Voltage Class	6kV, 10kV, 35kV/(-25%~+15%)
Overload Capacity	110%/Continuous, 120%/10s, 130%/instantaneously
Rated Frequency	50Hz/60Hz
Auxiliary Control Power	220VDC/110VDC, 2A + 3-P 4-L 380VAC±20%, 45~55Hz, 5~75A;
Protection Functions	System Over/Under-voltage, PT signal off-line, DC Over/Under-voltage, Output Over-current, Over-load, Power Cell Drive Fault, Over-temperature, Communication Fault, Bypass Failure, Controller Self-diagnosis and so on
IP Grade	IP4X, IP55
Efficiency	≥ 99.2%
System THDi	< 3%
Cooling Method	Air-forced cooling, Water-cooling
dv/dt	<1000v/μs
Noise Level @ 1m	Air-forced cooling: < 75dB, Water-cooling: < 65dB
Operating Temperature	-30°C ~ +45°C
Application Environment RH%	5%~95%
Installation Altitude	≤ 2000m