



A Static VAR Generator (SVG) provides reactive power compensation, preventing voltage fluctuations in systems, improving the power factor, and increasing energy efficiency. Application areas include industrial facilities, hospitals, large commercial buildings, renewable energy systems (wind and solar power plants), and electrical distribution networks.

	30K	50K	100K	200K
	Reactive power and three-phase unbalance compensation			
<b>System Parameters</b>				
Nominal Voltage	380/400/415V (228-456V)			
L-N Voltage	220/230/240V (132-264V)			
Nominal Frequency	50/60Hz, auto sensing (Range: 45Hz - 63.5Hz)			
Parallel Quantities	Unlimited			
Efficiency	99%			98.5%
Connection Type	3 Phase 3 Wire / 3 Phase 4 Wire			
CT Location	Load / Supply side			
<b>Performance Indicators</b>				
Control Algorithm	FFT, intelligent FFT, and instantaneous reactive power			
Fast Response Time	<50ms			
Full Response Time	<15ms			
Target Power Factor	Adjustable from -1 to +1			
Switching Frequency	Average 40kHz up to 95kHz			
Cooling Air Requirement	180CFM		240CFM	480CFM
Noise Level	<60dB (Full load)		<65dB (Full load)	<68dB (Full load)
Communications Ports	RS485 and Ethernet port(RJ45)			
Communications Protocols	Modbus RTU, TCP/IP			
Module Display Interface	4.3-inch HMI (Module), 7-inch HMI (Central monitor) and LED			
Protection Functions	Over-voltage protection, under-voltage protection, inverter bridge inverse protection, over-compensation protection			
Mounting Type	Wall-mounted, Rack-mounted and Cabinet			
Dimensions (W x D x H mm)	500*470*88		500*520*100	500*646*220
Net Weight	24kg		31	63
Storage Temperature	-40°C - 70°C			
Operating Ambient Temperature	-10°C - 40°C (may derate capacity if ambient temperature exceeds 40°C)			
Relative Humidity	5% to 95%, non-condensing			
Altitude	≤1500m, 1500-4000m, capacity is derating 1% for every 100m altitude increased			
Protection Class	IP20 (IP degree can be customizable)			