

Advanced Static Var Generator

220~480V/50(60)HZ

Low voltage network



Environment

- Installation : Indoor/Outdoor
- Ambient temperature:-20~55°C
- Average daily temperature:35°C
- Humidity:95%max

Connection mode

- 3P4W
- 3P3W

Environment certifications

- ISO 9001:2015
- ISO 14001:2015
- CE
- Type Test Report

Compared with the traditional capacitor bank, ELCOSINE Advanced Static Var Generator has the advantages of fast response and high compensation accuracy without under-compensation or over-compensation problems, avoid resonance, etc.

Options available through page 2

General characteristics

Electrical Specifications

Rated voltage	220V,415V,440V,690V,800V ±10%
Supply Type	3 Phase 4 Wire / 3 Phase 3 Wire
Rated Frequency	50/60Hz ±5%
Compensation Mode	Reactive power compensation Harmonic compensation 3 phase Imbalance Compensation Neutral Compensation Hybrid Compensation to improve traditional APFC System
Harmonics Filtering Effect	Typically, THDi ≤ 5% at rated load (Even with most complex loads).
Filter range	2nd~25th order harmonics,Max 60% of rated capacity
Rated of Harmonic Reduction	≥ 97% (For typical harmonic order distortions)
Target Power Factor	Adjustable from -1.0 to +1.0 Lag 1.0 to Lead 1.0
3 Phase Load Balancing Effect	≤ 5%, Mitigate negative and zero sequence
Neutral Filtering Capacity	3 times the rated filter current (in case of 4 wire device)
Reactive Power Compensation Capability	Both inductive and capacitive reactive power compensation
Overall Response time	≤ 5ms
Initial Response time	≤ 50us
Thermal Loss	≤ 2.5 %
Output Current Limitation switching/C frequency	Automatic (100% rated capacity) 37.5kHz

Control Technology

Human Machine Interface (HMI)	7" HMI(Touched&Colorized LCD Screen)
Topology	3 Level IGBT
Control algorithm	Intelligent FFT,Self-adaptive control algorithm
Controller	DSP+ FPGA
Communication protocols	Adopt Modbus remote
Control connection	Fiber or electrical connection communication interface adopts RS485 and CAN bus, supporting mobile phone APP operation.

Physical Specification

IP Grade of Cabinet	IP20
Cooling method	Speed regulation intelligent air cooling PWM Fans
Noise Level	<60db(≤45db during low-speed operation)
Protection	Hardware protection, Software protection

Environmental Requirement

Ambient Temperature	-20~55°C
Relative Humidity	Maximum 95%, without condensation
Altitude	≤ 2000 at rated capacity; appropriately reduce the capacity if it is > 2000(1% derating per 100m)

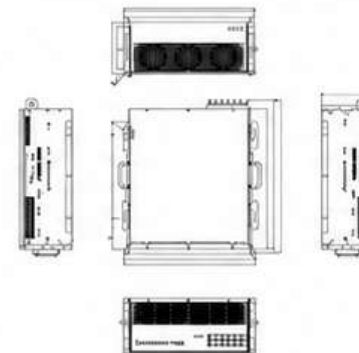
ASVG

References

Rated voltage	Type	Size (W*D*H)	Net Weight (kg)
220/400/480 VAC	EL-ASVG/30-4L	450*515*160	20
220/400/480 VAC	EL-ASVG/50-4L	450*515*160	26
220/400/480 VAC	EL-ASVG/75-4L	505*616*220	48
220/400/480 VAC	EL-ASVG/100-4L	505*616*220	55

For 690V, 800V, 11kV, 33kV & other higher Voltage sizes available on request please contact customer care at care@elcossine.com

Dimensions



Accessories ordering codes

EL-HMI

7 inch Human Machine Interface, Touched LCD Screen with matched cables

Modules Pictures

Horizontal Rack Module



Wall Mounted Module

