

Advanced Static Var Generator

ASVG-50kVAR



Features :

- Real time, dynamic step-less compensation
- Instant response time of 50 μ sec & full response in less than 1 cycle
- Capacitive (Leading) & Inductive (Lagging) reactive power mitigation
- Advance feature- Harmonic correction up to 15th order
- RS485, Optional Wi-Fi/Ethernet
- Modular Arrangement-Parallel operation up to 8 Module
- Can be installed with conventional capacitor banks

Main

Product name	ASVG
Product or component type	Advanced Static Var Generator

System Parameter

Line - Line Voltage	308V to 450V
Operating voltage range (P-N)	178V to 262V
Frequency	50 / 60 Hz (± 2.5 Hz)
Power efficiency	>97%
Compensation efficiency	> 98%
Power grid structure	3P3W/3P4W
Incomer protection	External MCCB or ACB Mandatory
CT ratio	Settable through HMI up to 10000/5A
CT location	Load side (default)/ Grid side
Rated RMS Current	70A
Reactive power compensation and load balancing	As Per Priority & based on site (Q+B,Q+H)
Circuit topology	3 level IGBT Inverter Topology

Performance

Response time	< 50 μ sec and full response less than 1 Cycle.
Target power factor	Adjustable from -1 to +1
Cooling mode	Forced air cooling
Operating modes	Power Factor Correction, Harmonic Mitigation, Load Balancing
Noise level	< 65 dB
Normal spectrum of compensation	Up to 15 th order of Harmonics
Harmonic mitigation	35A
Overall response time	< 5ms
Protection Functions	Over Current, Over Voltage, Over Temperature, IGBT Saturation, Grid Fault, Surge, DC Bus protection, EEPROM Fault, CT Detection fault

Communications and Monitoring Capabilities

Local monitoring	4.3"HMI Display
Communication ports	RS485 (Default), Ethernet & WiFi (Optional)
Communication protocols	MODBUS-RTU (Default), MODBUS TCP-IP (Optional)
Software updates	Through RS485 port using Customised utility

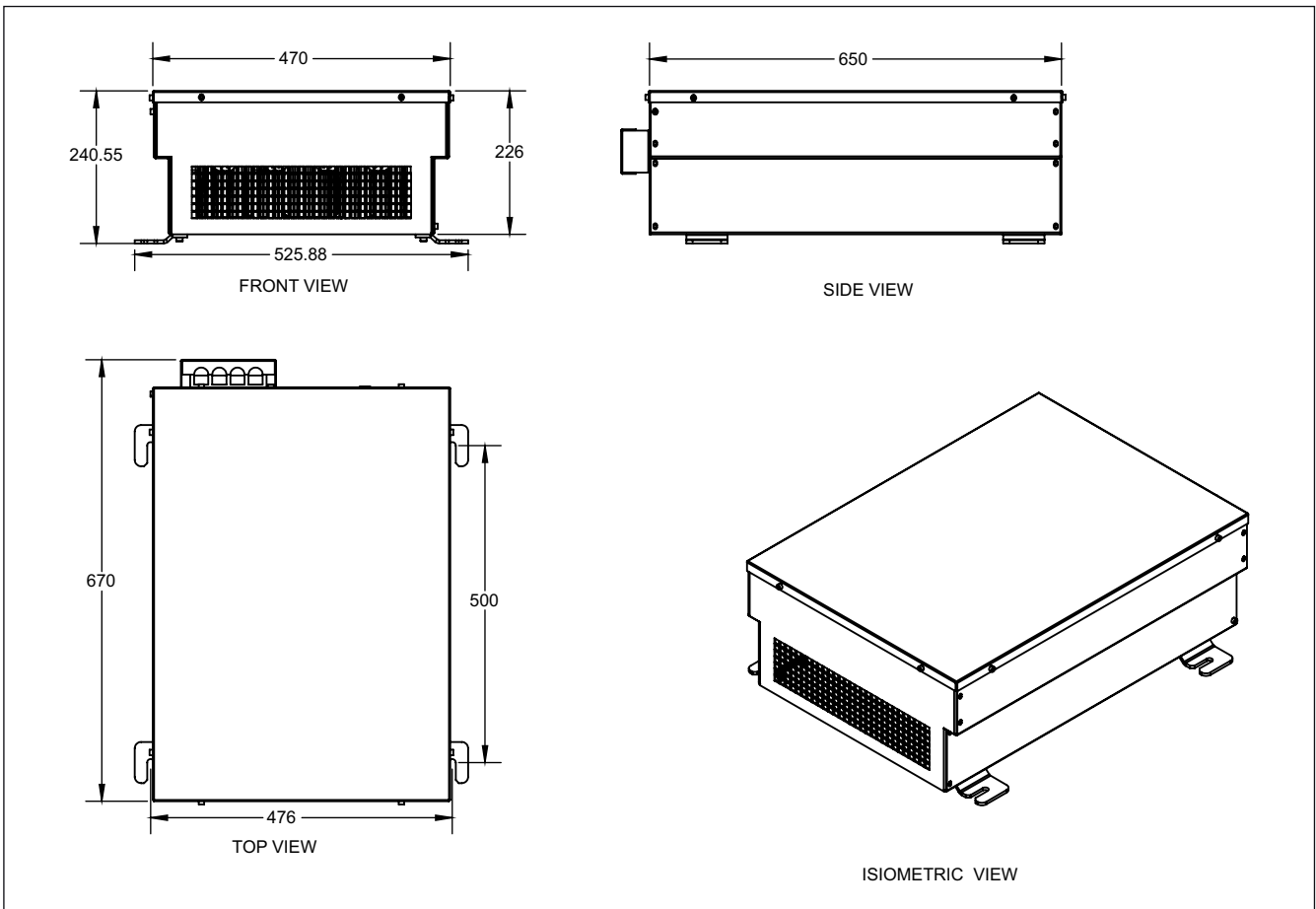
Mechanical Properties

Mounting type	Wall/Rack Mount
Dimensions (W × D × H) mm	470*240*670
MCCB	100A
Colour	RAL7035

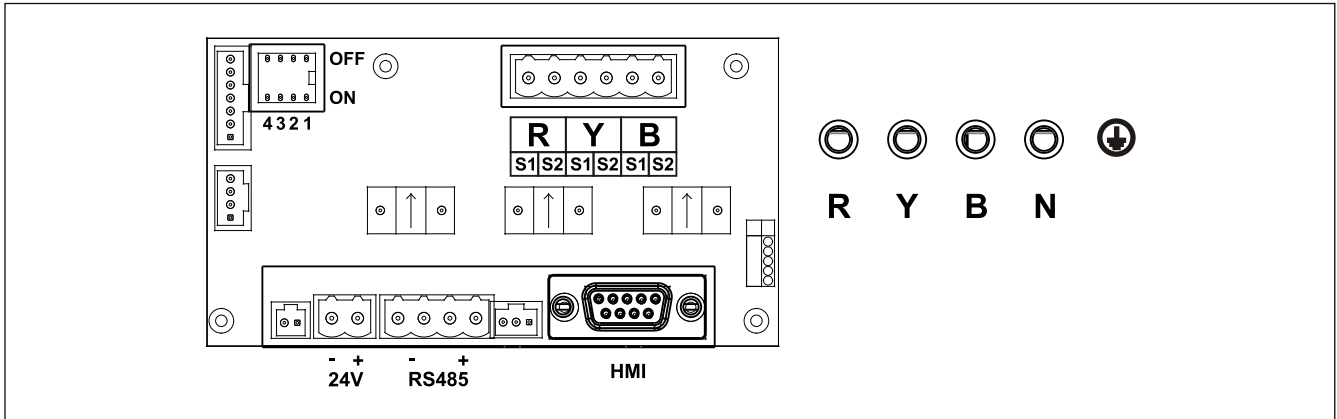
Environment Conditions

Altitude	<2000m
Operating temperature	-10 to 45°C
Relative humidity	95% RH; Non condensing
Protection class	IP 20
Certification and standard	EN 50178:1997/ IEC 50178:1997
Certification	EN 61000_6_2(2005) / EN55011, GROUP1, CLASS A IEC 61000_6_2(1999) / CISPR11, GROUP1, CLASS A
ASVG Series performance requirement	EN 50091-3 / IEC 62040-3 / AS 62040-3 (VFI SS 111)

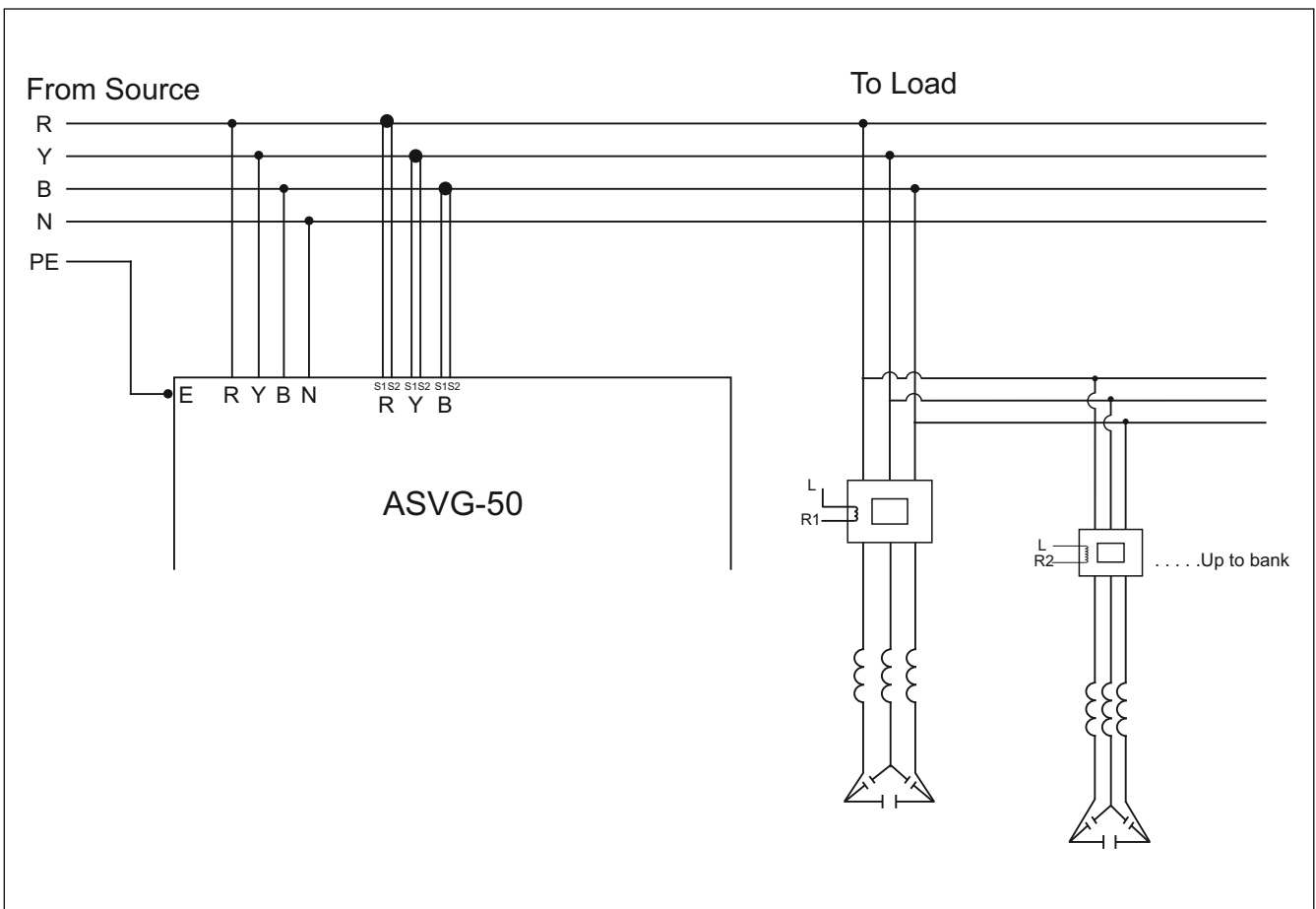
Mechanical dimensions



Terminal diagram



Terminal connection



Ordering information

Ordering information	Description
ASVG-050-RCK-4P-04	Advance Static Var Generator 50kVAR, Rack mounted, 3P-4W with 4.3 inch HMI
ASVG-050-WLL-4P-04	Advance Static Var Generator 50kVAR, Wall mounted, 3P-4W with 4.3 inch HMI
ASVG-050-WLL-4P-XX	Advance Static Var Generator 50kVAR, Wall mounted, 3P-4W without display

Note : For XX Model separate common controller is mandatory

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