Advanced Static Var Generator

ASVG-15kVAr



Features:

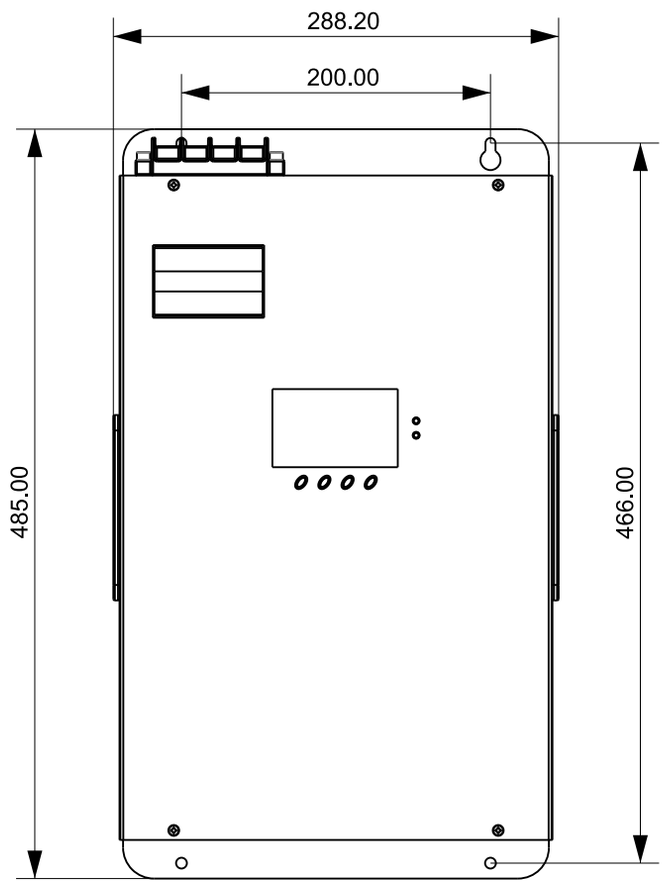
- Real time, dynamic step-less compensation
- Instant response time of 50 µsec & full response within 1 cycle
- Capacitive (Leading) & Inductive (Lagging) reactive power mitigation
- Advance feature- Harmonic correction up to 15th order
- Inbuilt APFC function

Technical specifications

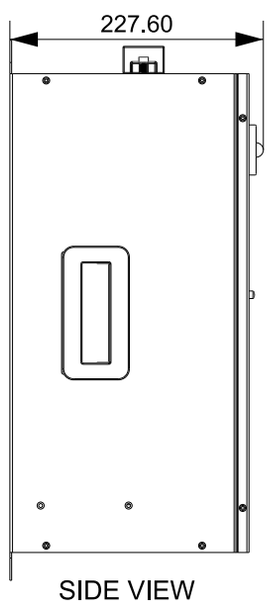
Main	
Product name	ASVG
Product or component type	Advanced static var generator
System Parameter	
Network configuration	3P-4W
Line - Line voltage	308V to 460V
Operating voltage range (P-N)	178V to 265V
Frequency	50/60 Hz (±2.5 Hz)
Power efficiency	>97%
Compensation efficiency	>98%
Incomer protection	External short circuit protection device mandatory
CT ratio	Settable through HMI up to 9999/5A
CT location	Load side (default) / Grid side
Rated RMS current	20A
Reactive power compensation and load balancing	As per priority & based on site (Q+H+B, H+Q+B)
Inverter topology	Three level neutral point clamped
Performance	
Response time	<50µsec and full response within 1 cycle
Overall response time	<5ms
Target power factor	Adjustable from -1 to +1
Cooling	Forced air cooling,112L / Sec
Operating modes	Power factor correction, Harmonic mitigation, Load balancing
Noise level	<65dB
Normal spectrum of compensation	Up to 15th order of harmonics
Harmonic mitigation	10A
Protection type	Built in 20A MCB
Protection function	Over-voltage protection, Under-voltage protection, IGBT desaturation protection, over temperature protection desaturation , over-current protection
Communications and monitoring capabilities	
Local monitoring	3.6 monochrome display
Digital outputs	8 potential free relay outputs for contactor-based capacitors
Communication ports	RS485 (default)
Communication protocols	MODBUS-RTU (default)
Software updates	Through RS485 port using customised utility

Mechanical properties	
Mounting type	Wall mount
Dimensions (W×D×H) mm	288*228*485
MCCB	25A
Colour	RAL9004
Environment conditions	
Altitude	<2000m
Operating temperature	-10 ºC to 45 ºC
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)

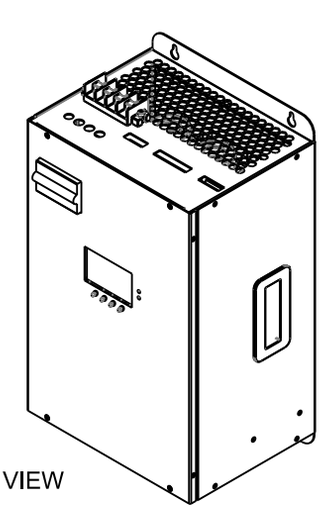
Mechanical diamensions



FRONT VIEW

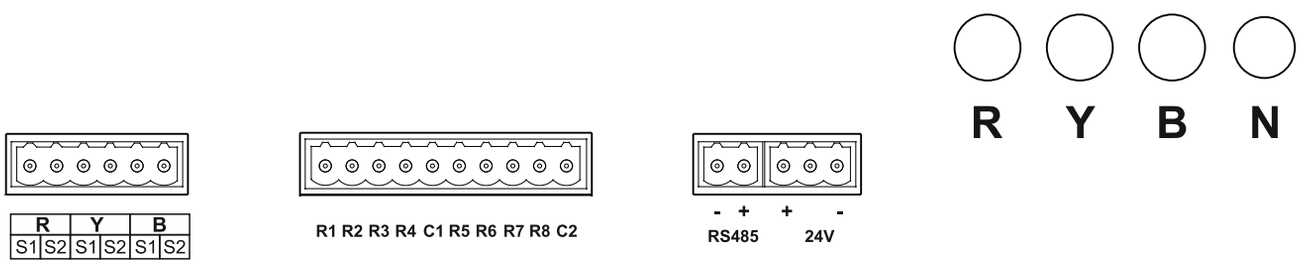


SIDE VIEW

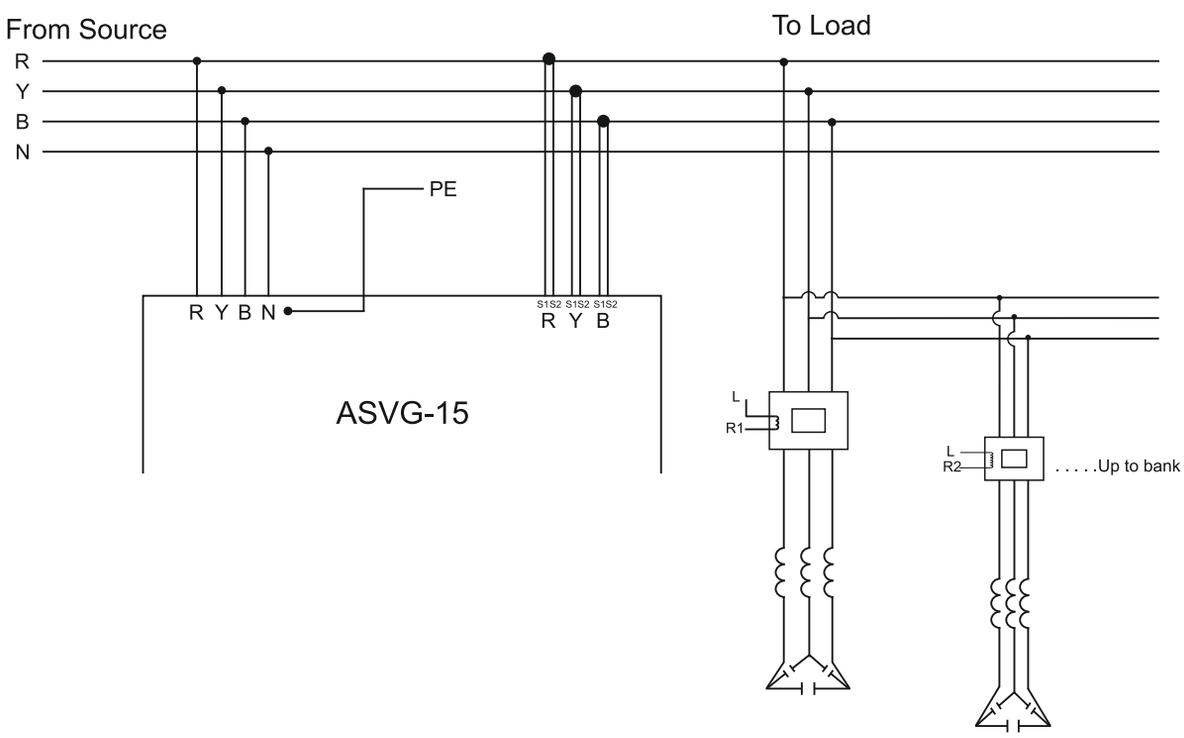


ISOMETRIC VIEW

Terminal diagram



Terminal connection



Ordering information

Product code	Description
ASVG-015-WLL-4P-00-8R	Advance Static Var Generator 15kVAr B, Wall mounted, 3P-4W inch HMI