

YIY

**Active Harmonic Filter /
Static Var Generator /
Active Voltage Conditioner**

May energy and ecology be more harmonious



ZHEJIANG YIYEN HOLDING GROUP

ZHEJIANG YIYEN HOLDING GROUP is a high-tech company that focuses on researching and manufacturing power electronic technology, integrating design, research and development, manufacturing, sales and service. YIYEN is dedicated to reducing electricity costs, improving electricity efficiency, and providing core power equipment and system solutions for the energy Internet of Things. With electrochemical energy storage and energy efficiency management as its core industry, YIYEN provides energy-saving service for power system, communication system, financial system, education system, medical system, and large industrial and mining enterprises.

Energy storage and energy efficiency management are critical reducing carbon emissions and promoting sustainable development. YIYEN's mission is to help make energy and ecology more harmonious by providing advanced energy storage and power quality solutions which improve efficiency, reduce costs, and promote clean energy. YIYEN will always continue to devote ourselves to the research and development and manufacturing of power electronic technology, and be committed to delivering cutting-edge solutions helping customers meet their energy management goals while contributing to a more sustainable future for all.

300+
Staff



30000m²+
Plant Area



15 year +
Years Experience



100,000+ /year
Unit Shipments



ENTERPRISE ARCHITECTURE



Headquarters

ZHEJIANG YIYEN HOLDING GROUP



Intelligent
Manufacturing

Lishui Yiyen Technology
CO.,LTD



Factory



Globalization
Channel

Wenzhou Yiyen Supply Chain
Management CO.,LTD



Marketing/Sales/Sourcing
Total Solutions and Technical Services



Investment
Operation

Wenzhou Yiyen Energy
Development CO.,LTD



EPC Service Provider for New Energy and
Energy Storage Plants
Contract Energy Management
(Domestic Only)



R&D

Nanjing Branch
Shenzhen Branch
Hangzhou Branch



R&D Center

50+

R&D Staff



130+

Export Countries



100+

Intellectual Properties



Qualification Certification

ISO9001



QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 2022Q21193R0S

We hereby certify that the organization:
LISHUI YIYEN TECHNOLOGY COMPANY LIMITED
Unified social credit code: 91331127MA2E079Y8T

is in conformity with Quality Management System Standard:
GB/T19001-2016 idt ISO9001:2015

The certificate is valid to the following products/service:
The assembling of Voltage Stabilizer, Inverter, Photovoltaic Equipment (MPPT Solar Charger, PCS), Uninterruptible Power Supply, Emergency Power Supply, Battery Pack Energy Storage System, Battery Management System (BMS)

Registration Address/Audit Address: No.77,Xiang Long Road,Lian Du Zone,Lishui City,Zhejiang Province, China.

Date of Issue: 26-09-2022
Date of Expiry: 25-09-2025
Date of Initial: 26-09-2022

Issued By: 



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C197-M



The audit of validity of the certificate, the certificate shall be at least once a year.
The effectiveness of the Certificate is subject to QR Code in the lower left corner.
Meanwhile, you can search the website of certification body: www.qpc.org.cn
or search the CNCA website: www.cnca.gov.cn

ZHEJIANG QUANPIN CERTIFICATION CO.,LTD.
Room 603, Floor 6, Building 1, No.74, Puyan Road, Puyan Street, Binjiang District, Hangzhou City,
Zhejiang Province, China 310053 WEB: <http://www.qpc.org.cn>

ISO45001



OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 2022S20467R0S

We hereby certify that the organization:
LISHUI YIYEN TECHNOLOGY COMPANY LIMITED
Unified social credit code: 91331127MA2E079Y8T

is in conformity with Occupational Health Safety Management System Standard:
GB/T45001-2020 idt ISO45001:2018

The certificate is valid to the following products/service:
The assembly and related management activities of Voltage Stabilizer, Inverter, Photovoltaic Equipment (MPPT Solar Charger, PCS), Uninterruptible Power Supply, Emergency Power Supply, Battery Pack Energy Storage System, Battery Management System (BMS)

Registration Address/Audit Address: No.77,Xiang Long Road,Lian Du Zone,Lishui City,Zhejiang Province, China.

Date of Issue: 26-09-2022
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Room 603, Floor 6, Building 1, No.74, Puyan Road, Puyan Street, Binjiang District, Hangzhou City,
Zhejiang Province, China 310053 WEB: <http://www.qpc.org.cn>

ISO14001



ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 2022E20495R0S

We hereby certify that the organization:
LISHUI YIYEN TECHNOLOGY COMPANY LIMITED
Unified social credit code: 91331127MA2E079Y8T

is in conformity with Environmental Management System Standard:
GB/T24001-2016 idt ISO14001:2015

The certificate is valid to the following products/service:
The assembly and related management activities of Voltage Stabilizer, Inverter, Photovoltaic Equipment (MPPT Solar Charger, PCS), Uninterruptible Power Supply, Emergency Power Supply, Battery Pack Energy Storage System, Battery Management System (BMS)

Registration Address/Audit Address: No.77,Xiang Long Road,Lian Du Zone,Lishui City,Zhejiang Province, China.

Date of Issue: 26-09-2022
Date of Expiry: 25-09-2025
Date of Initial: 26-09-2022

Issued By: 



中国认可
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CNAS C197-M



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or search the CNCA website: www.cnca.gov.cn

ZHEJIANG QUANPIN CERTIFICATION CO.,LTD.
Room 603, Floor 6, Building 1, No.74, Puyan Road, Puyan Street, Binjiang District, Hangzhou City,
Zhejiang Province, China 310053 WEB: <http://www.qpc.org.cn>

KES TESTING CERTIFICATION

Certificate of Conformity



Certification No. : KESJC20220591465
 Applicant : LISHUI YIYEN TECHNOLOGY COMPANY LIMITED
 Address : No.77,Xiang Long Road,Lian Du Zone,Lishui City,Zhejiang Province, China.
 Manufacturer : LISHUI YIYEN TECHNOLOGY COMPANY LIMITED
 Address : No.77,Xiang Long Road,Lian Du Zone,Lishui City,Zhejiang Province, China.
 Certification : CE-LVD
 Product Description : Three phase automatic compensation voltage regulator
 SBW-30kVA, SBW-50kVA, SBW-60kVA, SBW-80kVA, SBW-100kVA, SBW-120kVA, SBW-150kVA, SBW-180kVA, SBW-200kVA, SBW-220kVA, SBW-250kVA, SBW-300kVA, SBW-320kVA, SBW-350kVA, SBW-400kVA, SBW-500kVA, SBW-600kVA, SBW-800kVA, SBW-1000kVA, SBW-1200kVA, SBW-1500kVA, SBW-1600kVA, SBW-2000kVA, SBW-2500kVA

Model :
 Trademark : N/A
 The above products have been tested by us with listed standards and found in compliance with the Directive 2014/53/EU. It is possible to use CE marking to demonstrate the compliance with the Directive.

Test Standards : EN 62368-1:2020+A11:2020

The certificate is based on a single evaluation of tested samples of above-mentioned product. It does not imply an assessment of the whole production and does not permit the use of the test lab. logo.

Authorized Signer:

Shenzhen KES Testing & Certification Co., LTD
 Room 405, Floor 4th, Building C, Nanshan Technology Industrial Park, Nanshan Street, East An District, Shenzhen, Guangdong, China
 86-755-23096643 86-755-23096643 http://www.kes-test.com



Certificate of Conformity

NO.: E817031818E

The following product has been tested by us with the listed standards and found in conformity with the council EMC directive 2014/53/EU. It is possible to use CE marking to demonstrate the conformity with this EMC Directive.

Applicant : YUEQING YIYEN ELECTRIC TECHNOLOGY COMPANY LIMITED
 Address : 4th Floor, No.281,Wei 18 Road, Economic Development Zone, Yueqing City, 325600, Zhejiang Province, China
 Manufacturer : Shenzhen Yiyuan Technology Co., Ltd
 Address : 4th Floor, Building A, Guanghao Industrial Zone, Queshan Road, Longhua Town, Baoan District, Shenzhen City, 518109, China
 Trade Mark : YIY
 EUT : Automatic Voltage Regulator
 MN : SVR-500VA, SVR-1000VA, SVR-1500VA, SVR-2000VA, SVR-3000VA, SVR-5000VA, SVR-8000VA, SVR-10KVA, SVR-15KVA, SVR-20KVA, SVR-30KVA

Test Standards : EN 61000-6-3:2007+A1:2011+AC:2012
 EN 61000-3-12:2011
 EN 61000-3-11:2009
 EN 61000-6-1:2007

The certificate is based on a single evaluation of one sample of above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab. logo.



Ver.1.0

Certificate of Conformity

NO.: E817031808S

The following product has been tested by us with the listed standards and found in conformity with the council LVD directive 2014/35/EU. It is possible to use CE marking to demonstrate the conformity with this LVD Directive.

Applicant : YUEQING YIYEN ELECTRIC TECHNOLOGY COMPANY LIMITED
 Address : 4th Floor, No.281,Wei 18 Road, Economic Development Zone, Yueqing City, 325600, Zhejiang Province, China
 Manufacturer : Shenzhen Yiyuan Technology Co., Ltd
 Address : 4th Floor, Building A, Guanghao Industrial Zone, Queshan Road, Longhua Town, Baoan District, Shenzhen City, 518109, China
 Trade Mark : YIY
 EUT : Automatic Voltage Regulator
 MN : SVR-500VA, SVR-1000VA, SVR-1500VA, SVR-2000VA, SVR-3000VA, SVR-5000VA, SVR-8000VA, SVR-10KVA, SVR-15KVA, SVR-20KVA, SVR-30KVA

Technical Data : Refer to test report.
 Test Standards : EN 61558-2-12:2011

The certificate is based on a single evaluation of one sample of above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab. logo.



Ver.1.0

Certificate of Conformity

NO.: E817031808S

The following product has been tested by us with the listed standards and found in conformity with the council LVD directive 2014/35/EU. It is possible to use CE marking to demonstrate the conformity with this LVD Directive.

Applicant : YUEQING YIYEN ELECTRIC TECHNOLOGY COMPANY LIMITED
 Address : 4th Floor, No.281,Wei 18 Road, Economic Development Zone, Yueqing City, 325600, Zhejiang Province, China
 Manufacturer : Shenzhen Yiyuan Technology Co., Ltd
 Address : 4th Floor, Building A, Guanghao Industrial Zone, Queshan Road, Longhua Town, Baoan District, Shenzhen City, 518109, China
 Trade Mark : YIY
 EUT : Automatic Voltage Regulator
 MN : SVR-500VA, SVR-1000VA, SVR-1500VA, SVR-2000VA, SVR-3000VA, SVR-5000VA, SVR-8000VA, SVR-10KVA, SVR-15KVA, SVR-20KVA, SVR-30KVA

Technical Data : Refer to test report.
 Test Standards : EN 61558-2-12:2011

The certificate is based on a single evaluation of one sample of above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab. logo.



Ver.1.0

Certificate of Conformity

NO.: E817031829E

The following product has been tested by us with the listed standards and found in conformity with the council EMC directive 2014/53/EU. It is possible to use CE marking to demonstrate the conformity with this EMC Directive.

Applicant : YUEQING YIYEN ELECTRIC TECHNOLOGY COMPANY LIMITED
 Address : 4th Floor, No.281,Wei 18 Road, Economic Development Zone, Yueqing City, 325600, Zhejiang Province, China
 Manufacturer : Shenzhen Yiyuan Technology Co., Ltd
 Address : 4th Floor, Building A, Guanghao Industrial Zone, Queshan Road, Longhua Town, Baoan District, Shenzhen City, 518109, China
 Trade Mark : YIY
 EUT : Automatic Voltage Regulator
 MN : TR-500VA, TR-1000VA, TR-1500VA, TR-2000VA, TR-3000VA, TR-5000VA, TR-8000VA, TR-10KVA, TR-12KVA, TR-15KVA

Test Standards : EN 61000-6-3:2007+A1:2011+AC:2012
 EN 61000-3-12:2011
 EN 61000-3-11:2009
 EN 61000-6-1:2007

The certificate is based on a single evaluation of one sample of above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab. logo.



Ver.1.0

Certificate of Conformity

NO.: E817031829S

The following product has been tested by us with the listed standards and found in conformity with the council LVD directive 2014/35/EU. It is possible to use CE marking to demonstrate the conformity with this LVD Directive.

Applicant : YUEQING YIYEN ELECTRIC TECHNOLOGY COMPANY LIMITED
 Address : 4th Floor, No.281,Wei 18 Road, Economic Development Zone, Yueqing City, 325600, Zhejiang Province, China
 Manufacturer : Shenzhen Yiyuan Technology Co., Ltd
 Address : 4th Floor, Building A, Guanghao Industrial Zone, Queshan Road, Longhua Town, Baoan District, Shenzhen City, 518109, China
 Trade Mark : YIY
 EUT : Automatic Voltage Regulator
 MN : TR-500VA, TR-1000VA, TR-1500VA, TR-2000VA, TR-3000VA, TR-5000VA, TR-8000VA, TR-10KVA, TR-12KVA, TR-15KVA

Technical Data : Refer to test report.
 Test Standards : EN 61558-2-12:2011

The certificate is based on a single evaluation of one sample of above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab. logo.



Ver.1.0

Certificate of Conformity

NO.: E817031828S

The following product has been tested by us with the listed standards and found in conformity with the council EMC directive 2014/53/EU. It is possible to use CE marking to demonstrate the conformity with this EMC Directive.

Applicant : YUEQING YIYEN ELECTRIC TECHNOLOGY COMPANY LIMITED
 Address : 4th Floor, No.281,Wei 18 Road, Economic Development Zone, Yueqing City, 325600, Zhejiang Province, China
 Manufacturer : Shenzhen Yiyuan Technology Co., Ltd
 Address : 4th Floor, Building A, Guanghao Industrial Zone, Queshan Road, Longhua Town, Baoan District, Shenzhen City, 518109, China
 Trade Mark : YIY
 EUT : Automatic Voltage Regulator
 MN : TSD-500VA, TSD-1000VA, TSD-1500VA, TSD-2000VA, TSD-3000VA, TSD-5000VA, TSD-8000VA, TSD-10KVA, TSD-12KVA

Test Standards : EN 61000-6-3:2007+A1:2011+AC:2012
 EN 61000-3-12:2011
 EN 61000-3-11:2009
 EN 61000-6-1:2007

The certificate is based on a single evaluation of one sample of above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab. logo.



Ver.1.0

Certificate of Conformity

NO.: E817031828S

The following product has been tested by us with the listed standards and found in conformity with the council LVD directive 2014/35/EU. It is possible to use CE marking to demonstrate the conformity with this LVD Directive.

Applicant : YUEQING YIYEN ELECTRIC TECHNOLOGY COMPANY LIMITED
 Address : 4th Floor, No.281,Wei 18 Road, Economic Development Zone, Yueqing City, 325600, Zhejiang Province, China
 Manufacturer : Shenzhen Yiyuan Technology Co., Ltd
 Address : 4th Floor, Building A, Guanghao Industrial Zone, Queshan Road, Longhua Town, Baoan District, Shenzhen City, 518109, China
 Trade Mark : YIY
 EUT : Automatic Voltage Regulator
 MN : TSD-500VA, TSD-1000VA, TSD-1500VA, TSD-2000VA, TSD-3000VA, TSD-5000VA, TSD-8000VA, TSD-10KVA, TSD-12KVA

Technical Data : Refer to test report.
 Test Standards : EN 61558-2-12:2011

The certificate is based on a single evaluation of one sample of above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab. logo.



Ver.1.0

EMTEK

ASSEMBLY TO THE WORLD

TEST REPORT	
EN 61558-2-12	
Safety of power transformers, power supply units and similar Part 12: Particular requirements for constant voltage transformers	
Report reference No.	E817031828S
Tested by (r signature)	Agan Guo
Approved by (r signature)	William Guo
Date of issue	May 25, 2017
Total number of pages	12 pages
Testing Laboratory	EMTEK (SHENZHEN) CO., LTD
Address	Building 69, Majiang Industrial Zone, Nanhai District, Shenzhen City, Guangdong, China
Testing location/address	Same as above
Applicant's name	YUEQING YIYEN ELECTRIC TECHNOLOGY COMPANY LIMITED
Address	4th Floor, No.281 Wei 18 Road, Economic Development Zone, Yueqing City, 325600, Zhejiang Province, China
Test specification:	
Standard	EN 61558-2-12:2011
Test procedure	Compliance with EN 61558-2-12:2011 in accordance with EN 61558-1:2005+A1:2009
Non-standard test method	N/A
Test item description	Automatic Voltage Regulator
Trade Mark	YIY
Manufacturer	Shenzhen Yiyuan Technology Co., Ltd
Address	4th Floor, Building A, Guanghao Industrial Zone, Queshan Road, Longhua Town, Baoan District, Shenzhen City, 518109, China
Model / Type reference	TSD-500VA, TSD-1000VA, TSD-1500VA, TSD-2000VA, TSD-3000VA, TSD-5000VA, TSD-8000VA, TSD-10KVA, TSD-12KVA
Rating	See the rating labels.



YTY

福建天源环保科技股份有限公司
地址：福建省厦门市湖里区...
电话：0592-...
网址：www.yty.com.cn

PRODUCT CATALOGUE

AHF Active Harmonic Filter 01

SVG Static Var Generator 07

ASVG Advanced Static Var Generator 13

SiC ASVG SiC Advanced Static Var Generator 19

ASVG IP66 Advanced Static Var Generator IP66 21

AVC Active Voltage Conditioner 23

CVCF Voltage and Frequency Stabilisers 28

AHF

Active Harmonic Filters



Active Harmonic Filter (AHF) An active harmonic filter is a type of electronic device that is used to mitigate or eliminate harmonic distortions in electrical power systems. Harmonic distortion refers to the presence of unwanted frequencies in the power system that can lead to issues such as increased heating of equipment, reduced system efficiency, and even equipment failure.

AHF operates by sensing the harmonic currents in the system and generating a counter-current of the same magnitude and opposite phase. This counter-current cancels out the harmonic current and prevents it from being fed back into the power system. Active harmonic filters are designed to be fast and accurate in their response to changing harmonic conditions in the power system.

Active harmonic filters are commonly used in industrial and commercial settings where there are high levels of non-linear loads, such as variable frequency drives, uninterruptible power supplies, and computer equipment. They are also used in power quality improvement applications in residential and commercial buildings.

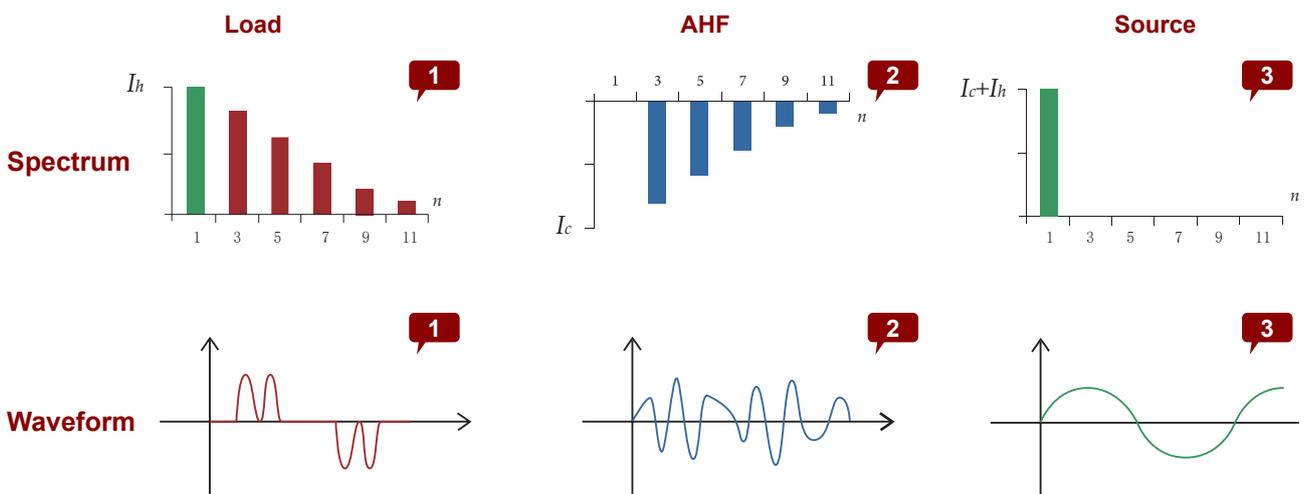
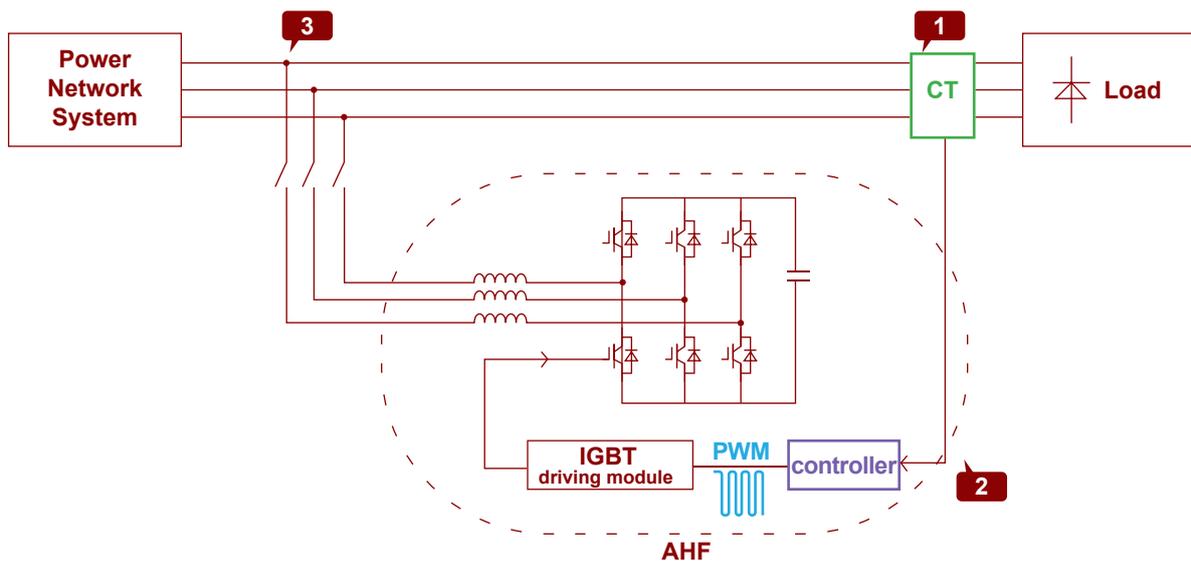
• Product Features

- 2nd to 50th harmonic mitigation
- Real-time compensation
- Modular design
- Protect equipment from being over heated or failure
- Improve working efficiency of equipment

• Working Principle

With the load current detected by external CT, DSP as CPU has advanced logic control arithmetic, could quickly track the instruction current, divide the load current into active power and reactive power by using the intelligent FFT, and calculate the harmonic content rapidly and accurately. Then it sends PWM signal to internal IGBT's driver board to control IGBT on and off at 20KHZ frequency. Finally, it generates opposite phase compensation current on inverter induction. In the meanwhile, CT also detects the output current and negative feedback goes to DSP. Then DSP proceeds the next logical control to achieve more accurate and stable system.

Working Principle

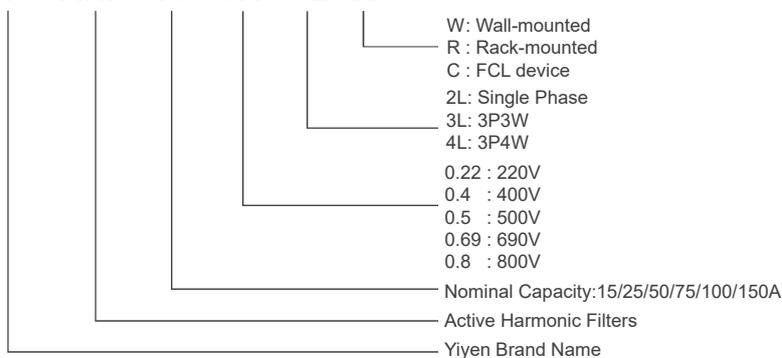


• Technical Specifications

TYPE	220V Series	400V/220V Series	500V Series	690V Series	800V Series
Rated Compensation Current	23A	15/25/50/ 75/100/150A	100A	100A	100A
Nominal Voltage	AC220V (-20%~+20%)	AC400V (-20%~+15%) / 220V(-20%~+20%)	AC500V (-20%~+20%)	AC690V (-20%~+15%)	AC800V (-20%~850VAC)
Rated Frequency	50/60Hz(45Hz~63Hz)				
Network	Single phase	3 phase 3 wire/3 phase 4 wire			3 Phase 3 Wire
Response Time	<40ms				
Harmonics Filtering	2nd to 50th Harmonics, The number of compensation can be selected, and the range of single compensation can be adjusted				
Harmonic Compensation Rate	≥95%				
Neutral Line Filtering Capability	/	The filtering capacity of 3 phase 4 wire neutral line is 1.5 times of that of phase filtering(3 times customized)			/
Machine Efficiency	≥97%				
Switching Frequency	32kHz	16kHz	12.8kHz		
Function	Harmonics filter	Harmonics filter / Three phase balance			Harmonics filter
Numbers In Parallel	No limitation. A single centralized monitoring module can be equipped with up to 8 power modules				
Communication Methods	Two-channel RS485 communication interface (support GPRS/WIFI wireless communication)				
Altitude Without Derating	<2000m				
Operating Temperature	-20~+50°C (derating above 40°C)				
Humidity	<90% RH, the average monthly minimum temperature is 25°C without condensation on the surface				
Pollution Level	Below level III				
Protection Function	Overload protection, hardware/software over-current protection, over-voltage protection, power failure protection, over-temperature protection, frequency anomaly protection, short circuit protection, etc				
Noise	≤60dB	≤65dB			
Installation	Rack/Wall-mounted				
Wiring	Back entry (rack-mounted type), top entry (wall-mounted type)				
Protection Grade	IP20				

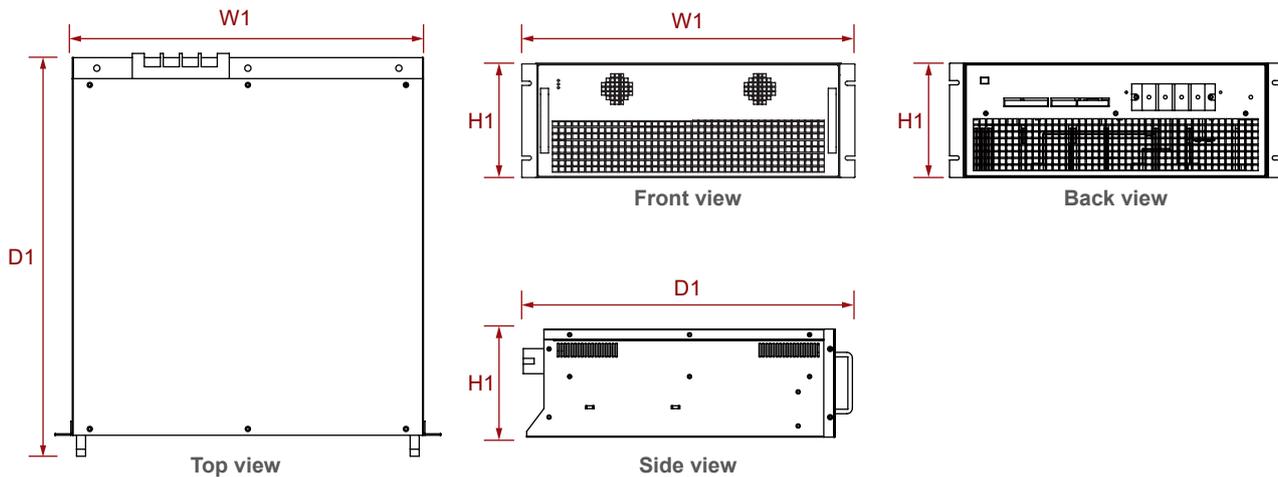
• Type Code

YIY AHF - 75 - 0.4 - 4L -W



• Product Dimensions

Rack-Mount



• Models

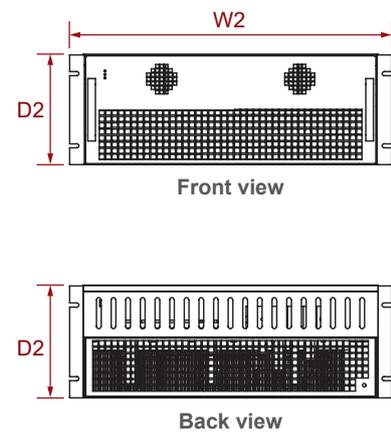
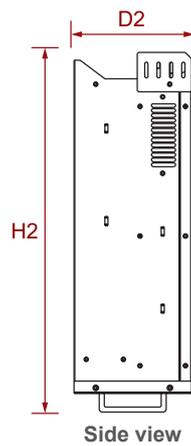
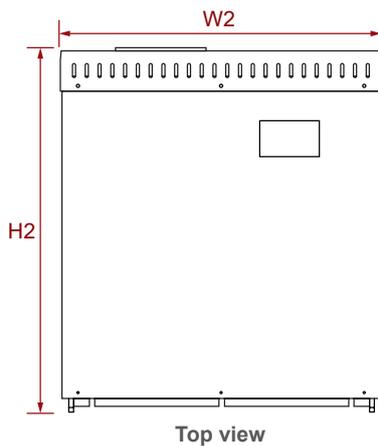
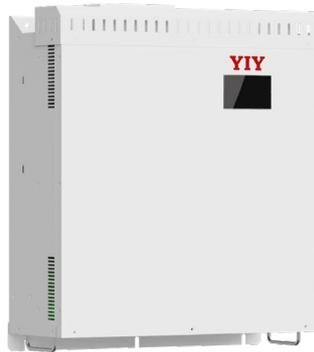
Model	Capacity	System Voltage	Size(W1*D1*H1)	Cooling Mode
YIY AHF-23-0.22-2L-R	23A	220V	220*375*167mm	Forced air cooling
YIY AHF-15-0.4-4L-R	15A	400V	500*535*89mm	Forced air cooling
YIY AHF-25-0.4-4L-R	25A	400V	500*535*89mm	Forced air cooling
YIY AHF-50-0.4-4L-R	50A	400V	500*535*89mm	Forced air cooling
YIY AHF-75-0.4-4L-R	75A	400V	550*584*190mm	Forced air cooling
YIY AHF-100-0.4-4L-R	100A	400V	550*624*240mm	Forced air cooling
YIY AHF-150-0.4-4L-R	150A	400V	550*624*240mm	Forced air cooling
YIY AHF-100-0.5-4L-R	100A	500V	550*722*275mm	Forced air cooling
YIY AHF-100-0.69-4L-R	100A	690V	550*752.5*275mm	Forced air cooling
YIY AHF-100-0.8-3L-R	100A	800V	550*752.5*275mm	Forced air cooling

Model	Capacity	System Voltage	Size(W1*D1*H1)	Cooling Mode
YIY AHF-15-0.22-4L-R	15A	220V	500*535*89mm	Forced air cooling
YIY AHF-25-0.22-4L-R	25A	220V	500*535*89mm	Forced air cooling
YIY AHF-50-0.22-4L-R	50A	220V	500*535*89mm	Forced air cooling
YIY AHF-75-0.22-4L-R	75A	220V	550*584*190mm	Forced air cooling
YIY AHF-100-0.22-4L-R	100A	220V	550*624*240mm	Forced air cooling
YIY AHF-150-0.22-4L-R	150A	220V	550*624*240mm	Forced air cooling

*If you need any other sizes, please contact us for customization.

• Product Dimensions

Wall-Mounted



• Models

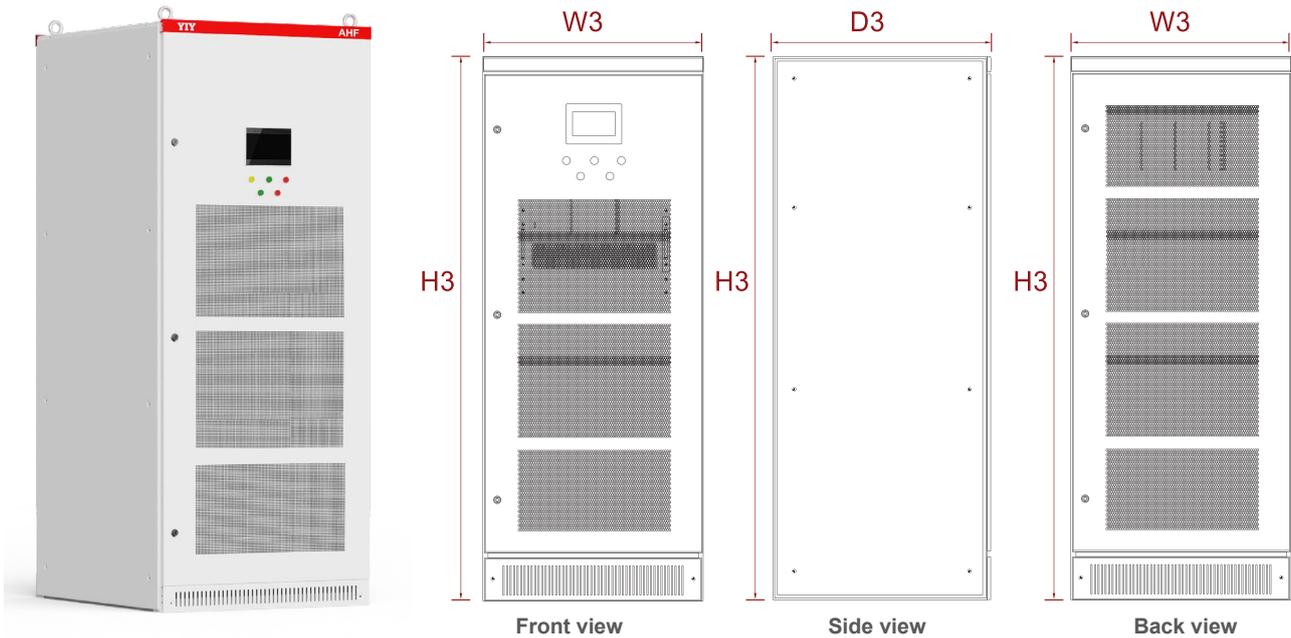
Model	Capacity	System Voltage	Size(W2*D2*H2)	Cooling Mode
YIY AHF-23-0.22-2L-W	23A	220V	220*167*375mm	Forced air cooling
YIY AHF-15-0.4-4L-W	15A	400V	500*89*535mm	Forced air cooling
YIY AHF-25-0.4-4L-W	25A	400V	500*89*535mm	Forced air cooling
YIY AHF-50-0.4-4L-W	50A	400V	500*89*535mm	Forced air cooling
YIY AHF-75-0.4-4L-W	75A	400V	550*190*584mm	Forced air cooling
YIY AHF-100-0.4-4L-W	100A	400V	550*240*624mm	Forced air cooling
YIY AHF-150-0.4-4L-W	150A	400V	550*240*624mm	Forced air cooling
YIY AHF-100-0.5-4L-W	100A	500V	550*275*722mm	Forced air cooling
YIY AHF-100-0.69-4L-W	100A	690V	550*275*752.5mm	Forced air cooling
YIY AHF-100-0.8-3L-W	100A	800V	550*275*752.5mm	Forced air cooling

Model	Capacity	System Voltage	Size(W2*D2*H2)	Cooling Mode
YIY AHF-15-0.22-4L-W	15A	220V	500*89*535mm	Forced air cooling
YIY AHF-25-0.22-4L-W	25A	220V	500*89*535mm	Forced air cooling
YIY AHF-50-0.22-4L-W	50A	220V	500*89*535mm	Forced air cooling
YIY AHF-75-0.22-4L-W	75A	220V	550*190*584mm	Forced air cooling
YIY AHF-100-0.22-4L-W	100A	220V	550*240*624mm	Forced air cooling
YIY AHF-150-0.22-4L-W	150A	220V	550*240*624mm	Forced air cooling

*If you need any other sizes, please contact us for customization.

• Product Dimensions

FCL



• Models

Model	Capacity	System Voltage	Size(W3*D3*H3)	Cooling Mode
YIY AHF-100-0.4-4L-C	100A	400V	800*1000*2200mm 800*1000*1600mm optional	Forced air cooling
YIY AHF-150-0.4-4L-C	150A	400V	800*1000*2200mm 800*1000*1600mm optional	Forced air cooling
YIY AHF-200-0.4-4L-C	200A	400V	800*1000*2200mm 800*1000*1600mm optional	Forced air cooling
YIY AHF-250-0.4-4L-C	250A	400V	800*1000*2200mm 800*1000*1600mm optional	Forced air cooling
YIY AHF-300-0.4-4L-C	300A	400V	800*1000*2200mm 800*1000*1600mm optional	Forced air cooling
YIY AHF-400-0.4-4L-C	400A	400V	800*1000*2200mm 800*1000*1600mm optional	Forced air cooling
YIY AHF-300-0.5-4L-C	300A	500V	800*1000*2200mm	Forced air cooling
YIY AHF-300-0.69-4L-C	300A	690V	800*1000*2200mm	Forced air cooling
YIY AHF-300-0.8-3L-C	300A	800V	800*1000*2200mm	Forced air cooling

*Cabinet 1 can accommodate 5 modules. Cabinet 2 can accommodate 3 modules.

*If you need any other sizes, please contact us for customization.

SVG

Static Var Generator



Static Var Generator(SVG) Static Var Generators (SVGs) are devices used in electrical power systems to control voltage, power factor and stabilize the system. They are a type of Static Synchronous Compensator (STATCOM) that use a voltage source converter to inject reactive power into the grid. SVGs are able to provide fast-acting reactive power compensation, which improve power quality and help to prevent voltage instability. SVGs are commonly used in industrial plants, wind farms and other applications where reactive power compensation is required. It is a reliable and efficient solution for maintaining the stability and quality of electrical power systems.

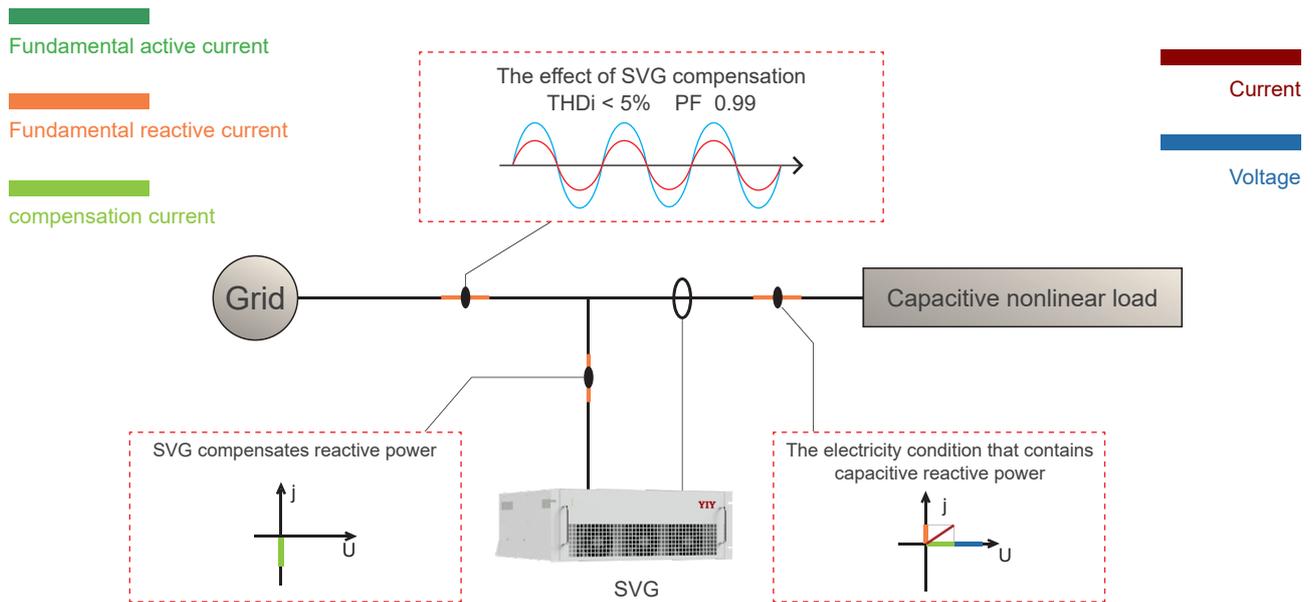
• Product Features

- No over compensation, no under compensation, no resonance
- Reactive power compensation effect
- PF0.99 level reactive power compensation
- Three-phase unbalance compensation
- Capacitive inductive load-1~1
- Real-time compensation
- Dynamic response time less than 50us
- Modular design

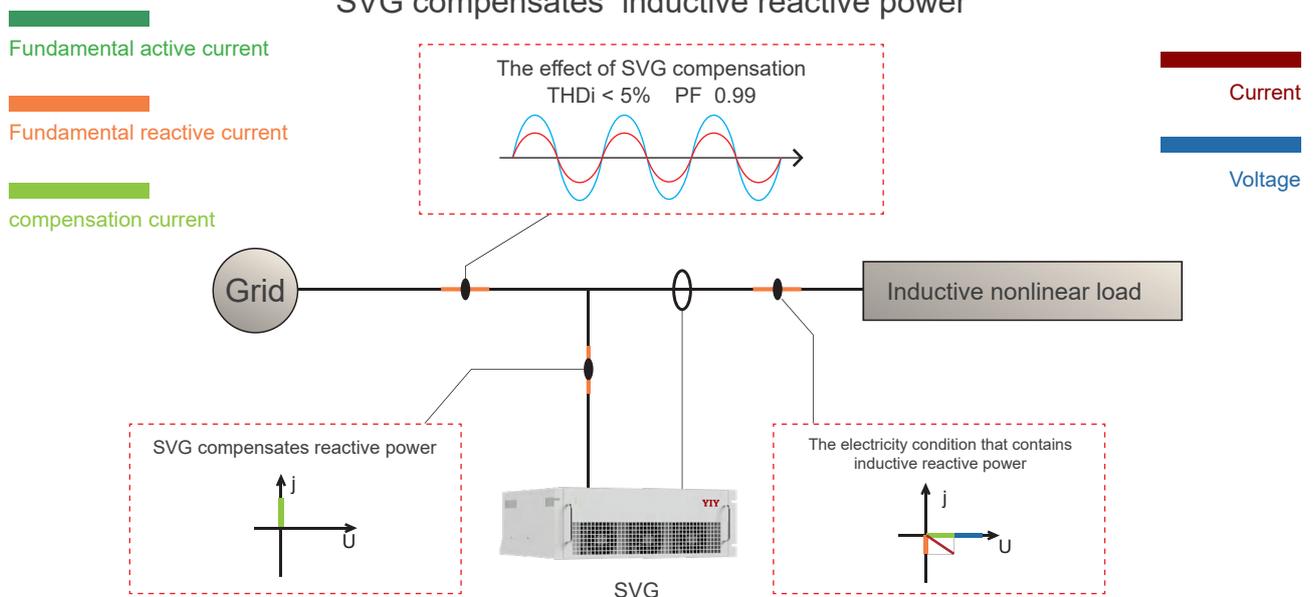
• Working Principle

The principle of the SVG is very similar to that of Active harmonic Filter, When the load is generating inductive or capacitive current, it makes load current lagging or leading the voltage. SVG detects the phase angle difference and generates leading or lagging current into the grid, making the phase angle of current almost the same as that of voltage on the transformer side, which means fundamental power factor is unit. YIY-SVG is also capable of correcting load imbalance.

SVG compensates capacitive reactive power



SVG compensates inductive reactive power

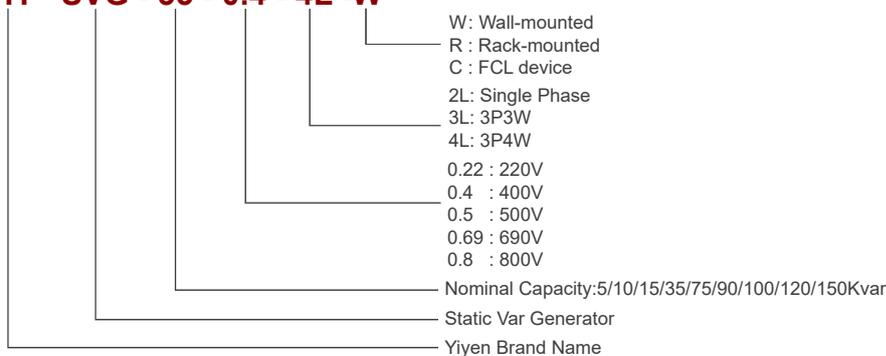


• Technical Specifications

TYPE	220V Series	220V Series	400V Series	500V Series	690V Series	800V Series
Rated Compensation Capacity	5Kvar	5/7/10/17/25/37/50Kvar	10/15/20/35/50/75/100Kvar	90Kvar	100/120Kvar	150Kvar
Nominal Voltage	AC220V (-20%~+20%)	AC220V (-20%~+20%)	AC400V (-20%~+15%)	AC500V (-20%~+20%)	AC690V (-20%~+15%)	AC800V (-20%~+15%)
Rated Frequency	50/60Hz(45Hz~63Hz)					
Network	Single phase	3 phase 3 wire/3 phase 4 wire				3 Phase 3 Wire
Response Time	<10ms					
Reactive Power Compensation Rate	≥98%					
Machine Efficiency	≥97%					
Switching Frequency	32kHz	16kHz		12.8kHz		
Function	Reactive power compensation	Reactive power compensation / Three phase balance				Reactive power compensation
Numbers In Parallel	No limitation. A single centralized monitoring module can be equipped with up to 8 power modules.					
Communication Methods	Two-channel RS485 communication interface (support GPRS/WIFI wireless communication)					
Altitude Without Derating	<2000m					
Operating Temperature	-20~+50°C (derating above 40°C)					
Humidity	<90% RH, The average monthly minimum temperature is 25°C without condensation on the surface					
Pollution Level	Below level III					
Protection Function	Overload protection, hardware/software over-current protection, over-voltage protection, power grid voltage protection, power failure protection, over-temperature protection, frequency anomaly protection, short circuit protection, etc					
Noise	≤60dB	≤65dB				
Installation	Rack/Wall-mounted					
Wiring	Back entry (rack-mounted type), top entry (wall-mounted type)					
Protection Grade	IP20					

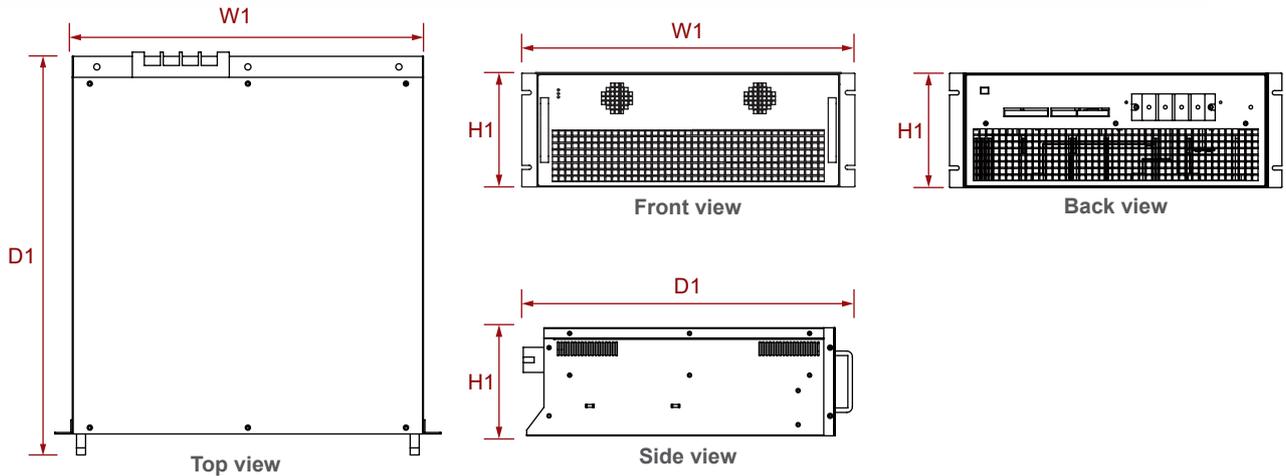
• Type Code

YIY SVG - 35 - 0.4 - 4L - W



• Product Dimensions

Rack-Mount



• Models

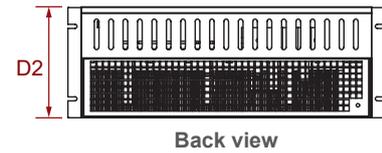
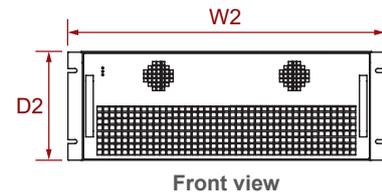
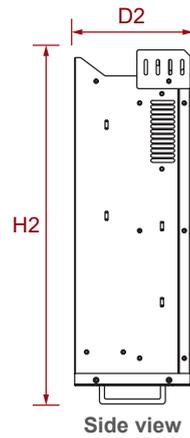
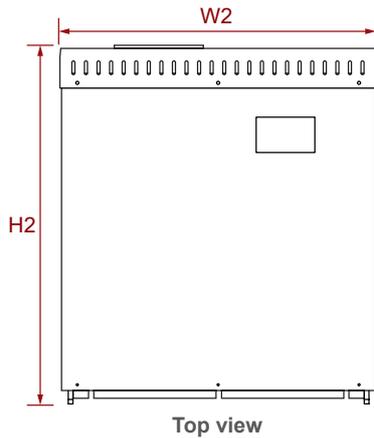
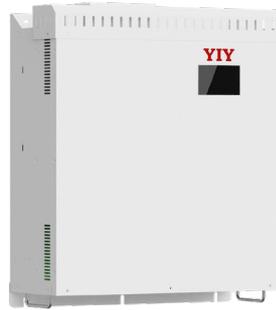
Model	Capacity	System Voltage	Size(W1*D1*H1)	Cooling Mode
YIY SVG-5-0.22-2L-R	5Kvar	220V	220*375*167mm	Forced air cooling
YIY SVG-10-0.4-4L-R	10Kvar	400V	500*535*89mm	Forced air cooling
YIY SVG-15-0.4-4L-R	15Kvar	400V	500*535*89mm	Forced air cooling
YIY SVG-20-0.4-4L-R	20Kvar	400V	500*535*89mm	Forced air cooling
YIY SVG-35-0.4-4L-R	35Kvar	400V	500*535*89mm	Forced air cooling
YIY SVG-50-0.4-4L-R	50Kvar	400V	550*584*190mm	Forced air cooling
YIY SVG-75-0.4-4L-R	75Kvar	400V	550*624*240mm	Forced air cooling
YIY SVG-100-0.4-4L-R	100Kvar	400V	550*624*240mm	Forced air cooling
YIY SVG-90-0.5-4L-R	90Kvar	500V	550*722*275mm	Forced air cooling
YIY SVG-100-0.69-4L-R	100Kvar	690V	550*752.5*275mm	Forced air cooling
YIY SVG-120-0.69-4L-R	120Kvar	690V	550*752.5*275mm	Forced air cooling
YIY SVG-150-0.8-3L-R	150Kvar	800V	550*752.5*275mm	Forced air cooling

Model	Capacity	System Voltage	Size(W1*D1*H1)	Cooling Mode
YIY SVG-5-0.22-4L-R	5Kvar	220V	500*535*89mm	Forced air cooling
YIY SVG-7-0.22-4L-R	7Kvar	220V	500*535*89mm	Forced air cooling
YIY SVG-10-0.22-4L-R	10Kvar	220V	500*535*89mm	Forced air cooling
YIY SVG-17-0.22-4L-R	17Kvar	220V	500*535*89mm	Forced air cooling
YIY SVG-25-0.22-4L-R	25Kvar	220V	550*584*190mm	Forced air cooling
YIY SVG-37-0.22-4L-R	37Kvar	220V	550*624*240mm	Forced air cooling
YIY SVG-50-0.22-4L-R	50Kvar	220V	550*624*240mm	Forced air cooling

*If you need any other sizes, please contact us for customization.

• Product Dimensions

Wall-Mounted



• Models

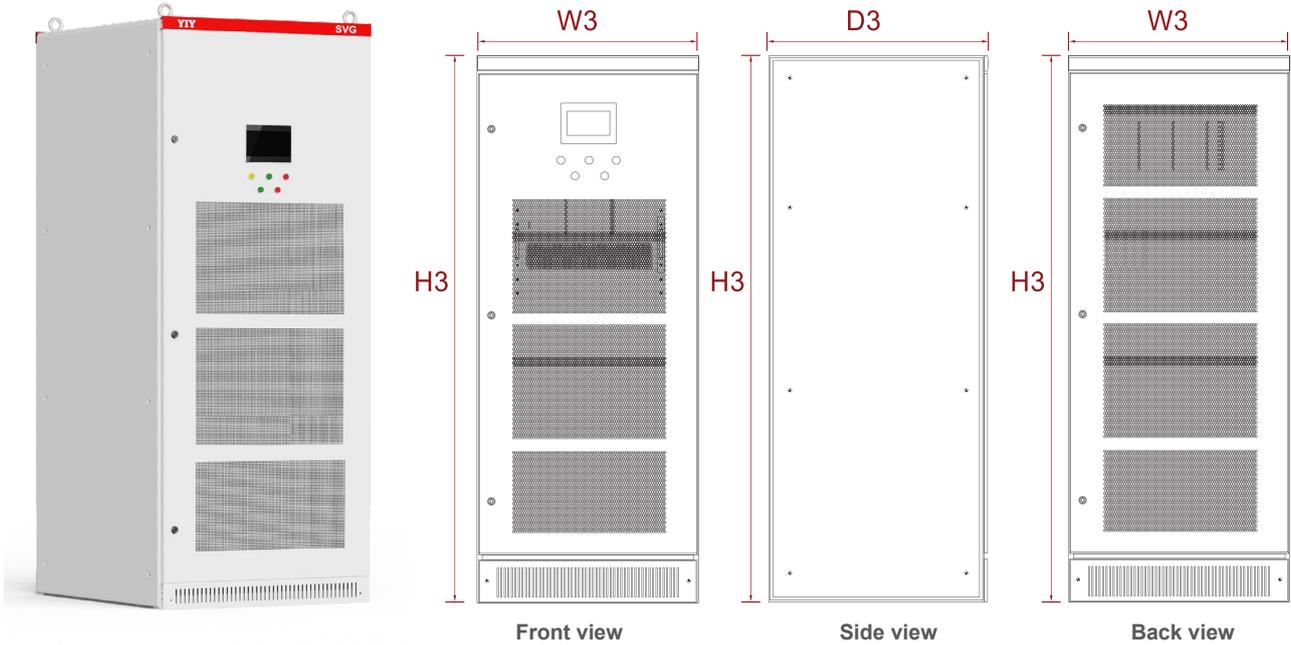
Model	Capacity	System Voltage	Size(W2*D2*H2)	Cooling Mode
YIY SVG-5-0.22-2L-W	5Kvar	220V	220*167*375mm	Forced air cooling
YIY SVG-10-0.4-4L-W	10Kvar	400V	500*89*535mm	Forced air cooling
YIY SVG-15-0.4-4L-W	15Kvar	400V	500*89*535mm	Forced air cooling
YIY SVG-20-0.4-4L-W	20Kvar	400V	500*89*535mm	Forced air cooling
YIY SVG-35-0.4-4L-W	35Kvar	400V	500*89*535mm	Forced air cooling
YIY SVG-50-0.4-4L-W	50Kvar	400V	550*190*584mm	Forced air cooling
YIY SVG-75-0.4-4L-W	75Kvar	400V	550*240*624mm	Forced air cooling
YIY SVG-100-0.4-4L-W	100Kvar	400V	550*240*624mm	Forced air cooling
YIY SVG-90-0.5-4L-W	90Kvar	500V	550*275*722mm	Forced air cooling
YIY SVG-100-0.69-4L-W	100Kvar	690V	550*275*752.5mm	Forced air cooling
YIY SVG-120-0.69-4L-W	120Kvar	690V	550*275*752.5mm	Forced air cooling
YIY SVG-150-0.8-3L-W	150Kvar	800V	550*275*752.5mm	Forced air cooling

Model	Capacity	System Voltage	Size(W1*D1*H1)	Cooling Mode
YIY SVG-5-0.22-4L-W	5Kvar	220V	500*535*89mm	Forced air cooling
YIY SVG-7-0.22-4L-W	7Kvar	220V	500*535*89mm	Forced air cooling
YIY SVG-10-0.22-4L-W	10Kvar	220V	500*535*89mm	Forced air cooling
YIY SVG-17-0.22-4L-W	17Kvar	220V	500*535*89mm	Forced air cooling
YIY SVG-25-0.22-4L-W	25Kvar	220V	550*584*190mm	Forced air cooling
YIY SVG-37-0.22-4L-W	37Kvar	220V	550*624*240mm	Forced air cooling
YIY SVG-50-0.22-4L-W	50Kvar	220V	550*624*240mm	Forced air cooling

*If you need any other sizes, please contact us for customization.

• Product Dimensions

FCL



• Models

Model	Capacity	System Voltage (V)	Size(W3*D3*H3)	Cooling Mode
YIY SVG-50-0.4-4L-C	50Kvar	400V	800*1000*2200mm 800*1000*1600mm optional	Forced air cooling
YIY SVG-100-0.4-4L-C	100Kvar	400V	800*1000*2200mm 800*1000*1600mm optional	Forced air cooling
YIY SVG-200-0.4-4L-C	200Kvar	400V	800*1000*2200mm 800*1000*1600mm optional	Forced air cooling
YIY SVG-250-0.4-4L-C	250Kvar	400V	800*1000*2200mm 800*1000*1600mm optional	Forced air cooling
YIY SVG-300-0.4-4L-C	300Kvar	400V	800*1000*2200mm 800*1000*1600mm optional	Forced air cooling
YIY SVG-400-0.4-4L-C	400Kvar	400V	800*1000*2200mm 800*1000*1600mm optional	Forced air cooling
YIY SVG-270-0.5-4L-C	270Kvar	500V	800*1000*2200mm	Forced air cooling
YIY SVG-360-0.69-4L-C	360Kvar	690V	800*1000*2200mm	Forced air cooling
YIY SVG-450-0.8-3L-C	450Kvar	800V	800*1000*2200mm	Forced air cooling

*Cabinet 1 can accommodate 5 modules. Cabinet 2 can accommodate 3 modules.

*If you need any other sizes, please contact us for customization.

ASVG

Advanced Static Var Generator

Reactive Power Compensation, Harmonic Control, Three Phase Balance



Advanced Static Var Generator (ASVG) is a new type of dynamic reactive power compensation product, combining power factor correction harmonic mitigation and three phase balance in one unit. It provides the same dynamic performance for compensating reactive power as the SVG with the added benefit of combining harmonic mitigation and controlling three phase unbalance. Advanced static var generators (ASVGs) are high-performance, compact, flexible, modular, and cost-effective to provide immediate and efficient responses to power quality problems in high and low voltage power systems.

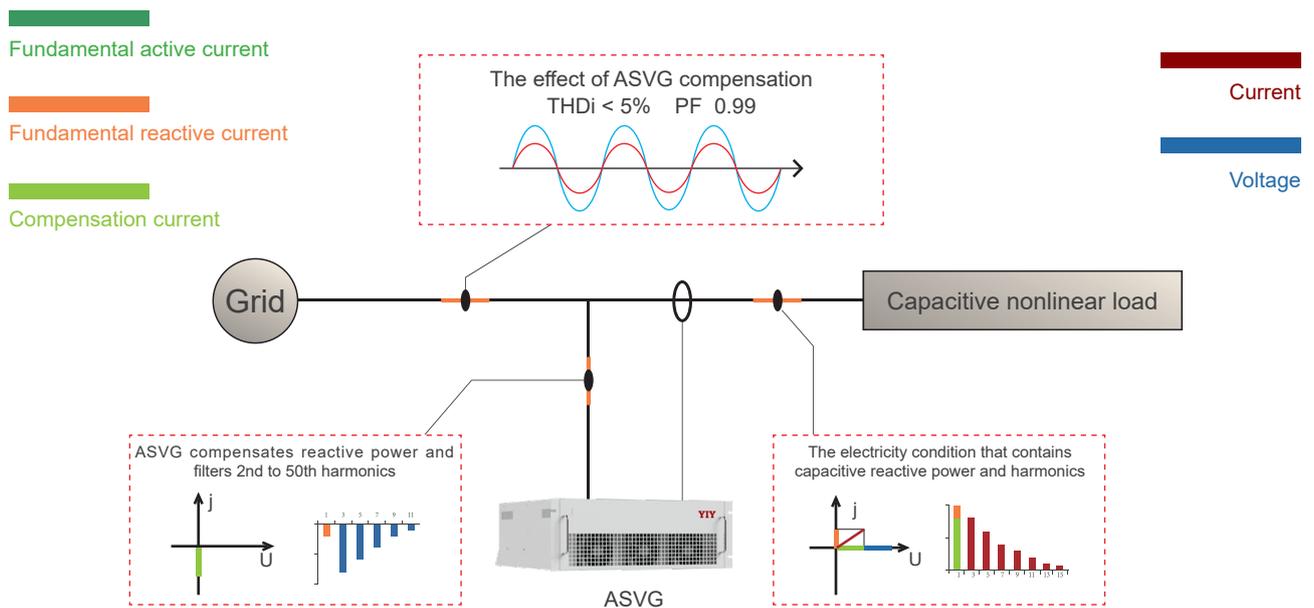
• Product Features

- Reactive power compensation: $\text{Cos } \varnothing = 1.00$
- Capacitive and Inductive compensation: -1 to +1
- All the features and benefits of the SVG.
- Mitigation of 2nd to 50th harmonic mitigation.
- Unit capacity can be selected in any proportion between power factor correction and harmonics correction.
- Capacitive inductive load-1~1.
- Current unbalance correction can correct for load unbalance across all three phases.

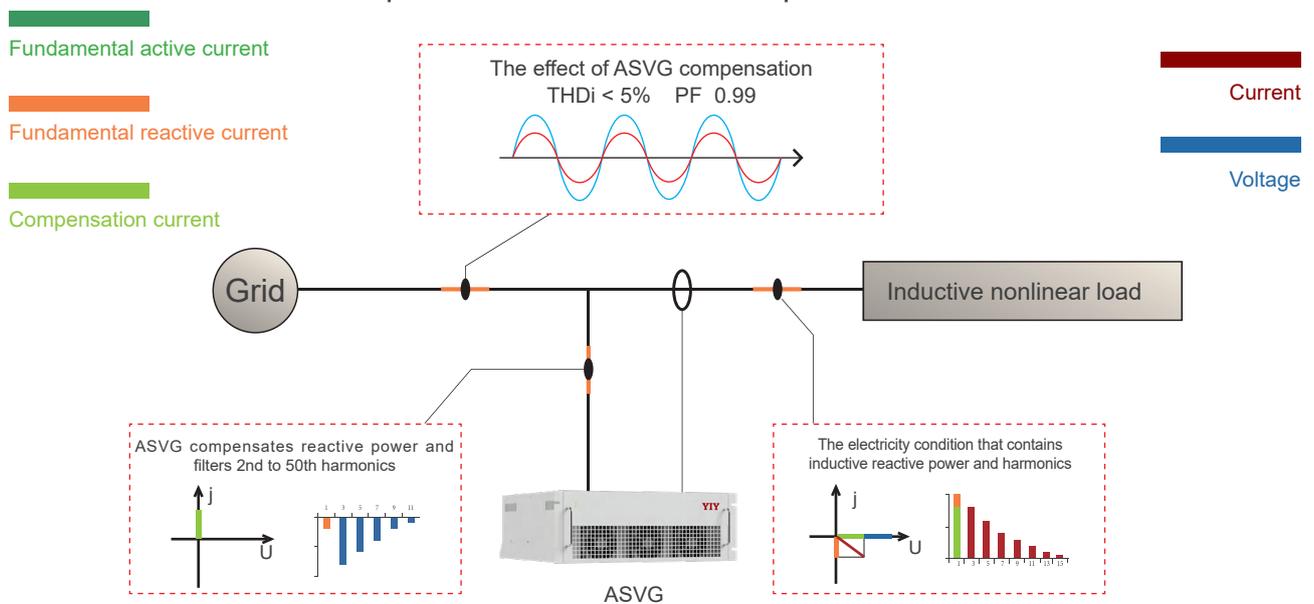
• Working Principle

With external CT detecting the load current in real time, internal DSP calculate and abstract the reactive power and harmonic content of load current, then send the PWM signal to internal IGBT and adjust the phase and amplitude of the output voltage on the AC side of the inverter or directly control the phase and amplitude of the current on the AC side of the inverter, so as to quickly absorb or emit the required reactive power and harmonic current, and realize the purpose of fast dynamic adjustment of reactive power and harmonic compensation. Not only the reactive current of the load, but also the harmonic current can be tracked and compensated.

ASVG Compensates capacitive reactive power and harmonics



ASVG Compensates inductive reactive power and harmonics

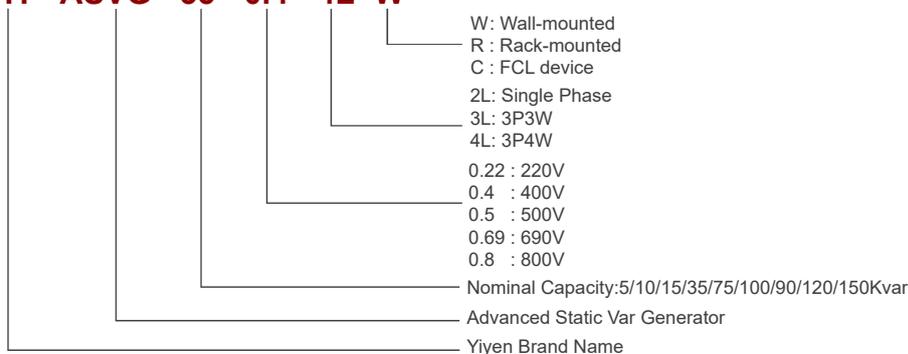


• Technical Specifications

TYPE	220V Series	220V Series	400V Series	500V Series	690V Series	800V Series
Rated Compensation Capacity	5Kvar	3/5/7/10/17/25/37/50Kvar	5/10/15/20/35/50/75/100Kvar	90Kvar	100/120Kvar	150Kvar
Nominal Voltage	AC220V (-20%~+20%)	AC220V (-20%~+20%)	AC400V (-20%~+15%)	AC500V (-20%~+20%)	AC690V (-20%~+15%)	AC800V (-20%~+15%)
Rated Frequency	50/60Hz(45Hz~63Hz)					
Grid Structure	Single phase	3 phase 3 wire/3 phase 4 wire				3 Phase 3 Wire
Number Of Parallel	No limitation. A single centralized monitoring module can be equipped with up to 8 power modules.					
Machine Efficiency	>97%					
Switching Efficiency	32kHz	16kHz		12.8kHz		
Function	Reactive power compensation / Harmonics filter	Reactive power compensation / Harmonics filter / Three phase balance				Reactive power compensation / Harmonics filter
Compensation Rate	Reactive power compensation ≥98%,Harmonics filter ≥95%,Three phase balance ≥95%					
Harmonic Compensation Times	2nd to 50th times					
Response Time	<10ms					
Noise	≤60dB	≤65dB				
Communication Method	Two-channel RS485 communication interface (support GPRS/WIFI wireless communication)					
Monitoring Method	4.3 inch LCD small-sized screen / 7 inch LCD centralized monitoring screen					
Protection	Over load protection, hardware/software over current protection, over grid power protection /under grid power protection, grid power voltage imbalance protection, power failure protection, over temperature protection, frequency anomaly protection, short circuit protection, etc					
Altitude Without Derating	<2000m					
Operating Temperature	-20~+50°C (derating above 40°C)					
Relative Humidity	<90% ,The average monthly minimum temperature is 25°C without condensation on the surface					
Pollution Level	Below level III					
Installation	Rack/Wall-mounted					
Wiring	Back entry (rack-mounted type),Top entry (wall-mounted type)					
Protection Grade	IP20					

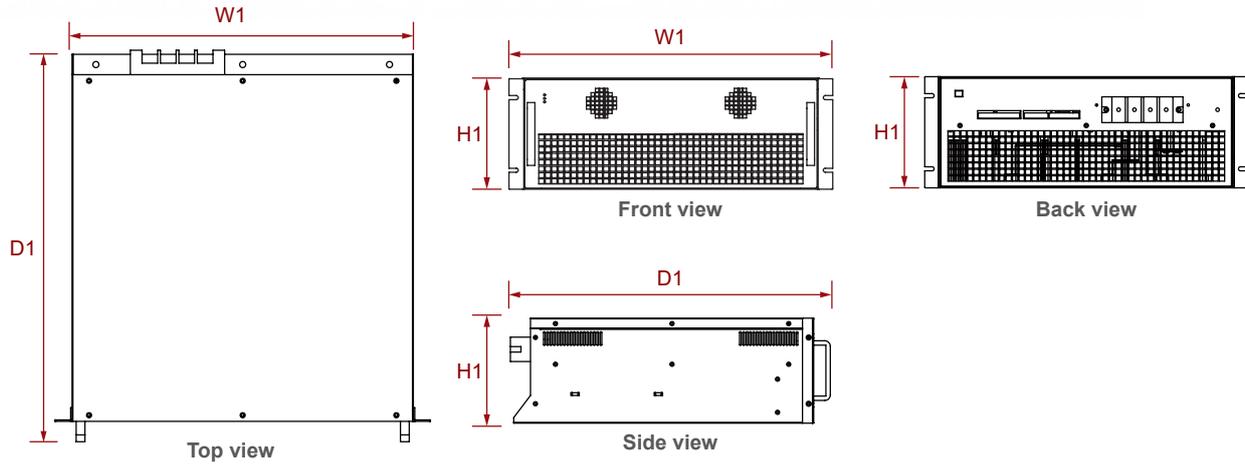
• Type Code

YIY ASVG - 35 - 0.4 - 4L -W



• Product Dimensions

Rack-Mount



• Models

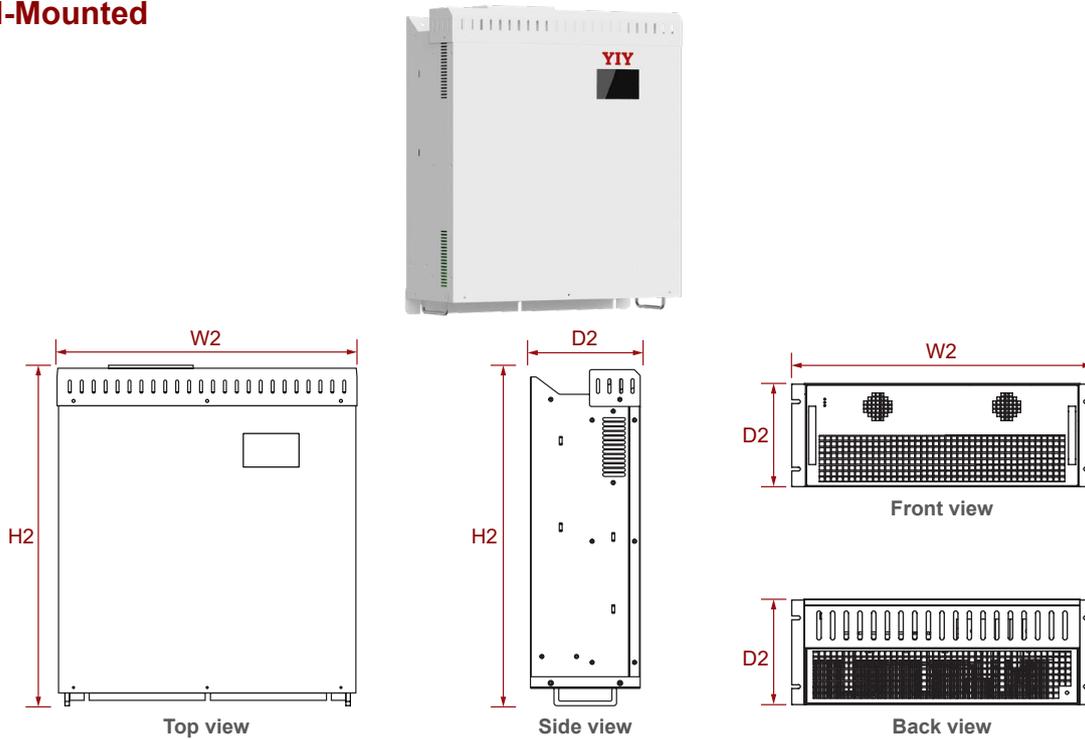
Model	Capacity	System Voltage	Size(W1*D1*H1)	Cooling Mode
YIY ASVG-5-0.22-2L-R	5Kvar	220V	220*375*167mm	Forced air cooling
YIY ASVG-5-0.4-4L-R	5Kvar	400V	500*535*89mm	Forced air cooling
YIY ASVG-10-0.4-4L-R	10Kvar	400V	500*535*89mm	Forced air cooling
YIY ASVG-15-0.4-4L-R	15Kvar	400V	500*535*89mm	Forced air cooling
YIY ASVG-20-0.4-4L-R	20Kvar	400V	500*535*89mm	Forced air cooling
YIY ASVG-35-0.4-4L-R	35Kvar	400V	500*535*89mm	Forced air cooling
YIY ASVG-50-0.4-4L-R	50Kvar	400V	550*584*190mm	Forced air cooling
YIY ASVG-75-0.4-4L-R	75Kvar	400V	550*624*240mm	Forced air cooling
YIY ASVG-100-0.4-4L-R	100Kvar	400V	550*624*240mm	Forced air cooling
YIY ASVG-90-0.5-4L-R	90Kvar	500V	550*722*275mm	Forced air cooling
YIY ASVG-100-0.69-4L-R	100Kvar	690V	550*752.5*275mm	Forced air cooling
YIY ASVG-120-0.69-4L-R	120Kvar	690V	550*752.5*275mm	Forced air cooling
YIY ASVG-150-0.8-3L-R	150Kvar	800V	550*752.5*275mm	Forced air cooling

Model	Capacity	System Voltage	Size(W1*D1*H1)	Cooling Mode
YIY ASVG-3-0.22-4L-R	3Kvar	220V	500*535*89mm	Forced air cooling
YIY ASVG-5-0.22-4L-R	5Kvar	220V	500*535*89mm	Forced air cooling
YIY ASVG-7-0.22-4L-R	7Kvar	220V	500*535*89mm	Forced air cooling
YIY ASVG-10-0.22-4L-R	10Kvar	220V	500*535*89mm	Forced air cooling
YIY ASVG-17-0.22-4L-R	17Kvar	220V	500*535*89mm	Forced air cooling
YIY ASVG-25-0.22-4L-R	25Kvar	220V	550*584*190mm	Forced air cooling
YIY ASVG-37-0.22-4L-R	37Kvar	220V	550*624*240mm	Forced air cooling
YIY ASVG-50-0.22-4L-R	50Kvar	220V	550*624*240mm	Forced air cooling

*If you need any other sizes, please contact us for customization.

• Product Dimensions

Wall-Mounted



• Models

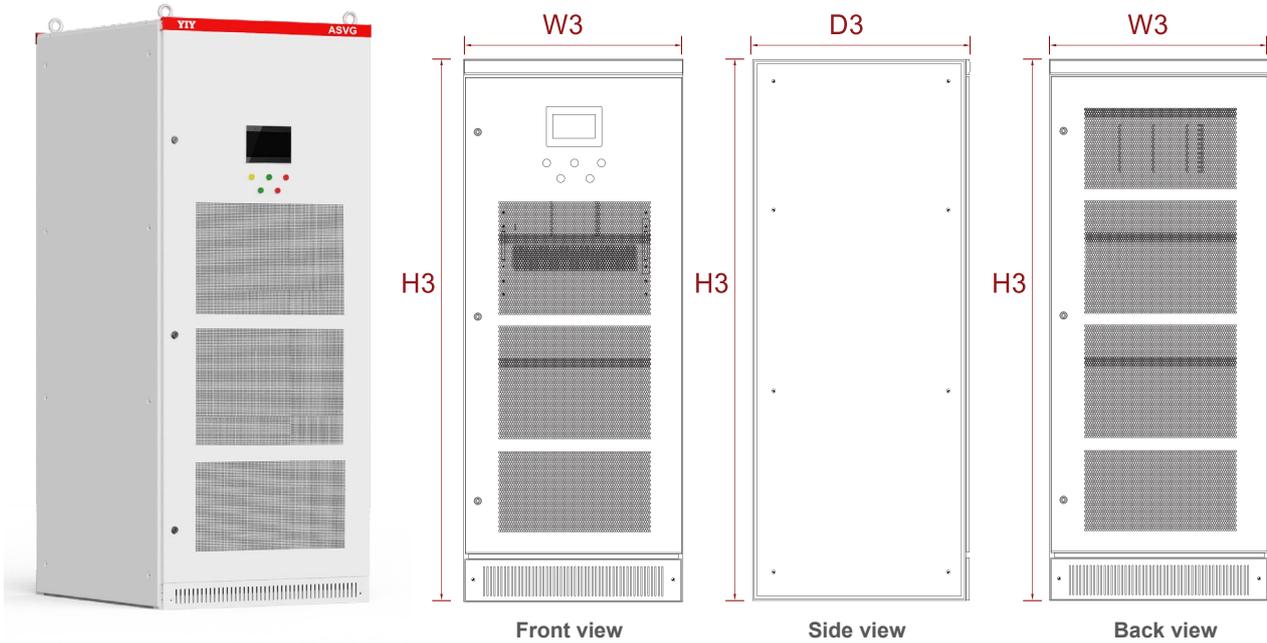
Model	Capacity	System Voltage	Size(W2*D2*H2)	Cooling Mode
YIY ASVG-5-0.22-2L-W	5Kvar	220V	220*167*375mm	Forced air cooling
YIY ASVG-5-0.4-4L-W	5Kvar	400V	500*89*535mm	Forced air cooling
YIY ASVG-10-0.4-4L-W	10Kvar	400V	500*89*535mm	Forced air cooling
YIY ASVG-15-0.4-4L-W	15Kvar	400V	500*89*535mm	Forced air cooling
YIY ASVG-20-0.4-4L-W	20Kvar	400V	500*89*535mm	Forced air cooling
YIY ASVG-35-0.4-4L-W	35Kvar	400V	500*89*535mm	Forced air cooling
YIY ASVG-50-0.4-4L-W	50Kvar	400V	550*190*584mm	Forced air cooling
YIY ASVG-75-0.4-4L-W	75Kvar	400V	550*240*624mm	Forced air cooling
YIY ASVG-100-0.4-4L-W	100Kvar	400V	550*240*624mm	Forced air cooling
YIY ASVG-90-0.5-4L-W	90Kvar	500V	550*275*722mm	Forced air cooling
YIY ASVG-100-0.69-4L-W	100Kvar	690V	550*275*752.5mm	Forced air cooling
YIY ASVG-120-0.69-4L-W	120Kvar	690V	550*275*752.5mm	Forced air cooling
YIY ASVG-150-0.8-3L-W	150Kvar	800V	550*275*752.5mm	Forced air cooling

Model	Capacity	System Voltage	Size(W1*D1*H1)	Cooling Mode
YIY ASVG-3-0.22-4L-W	3Kvar	220V	500*535*89mm	Forced air cooling
YIY ASVG-5-0.22-4L-W	5Kvar	220V	500*535*89mm	Forced air cooling
YIY ASVG-7-0.22-4L-W	7Kvar	220V	500*535*89mm	Forced air cooling
YIY ASVG-10-0.22-4L-W	10Kvar	220V	500*535*89mm	Forced air cooling
YIY ASVG-17-0.22-4L-W	17Kvar	220V	500*535*89mm	Forced air cooling
YIY ASVG-25-0.22-4L-W	25Kvar	220V	550*584*190mm	Forced air cooling
YIY ASVG-37-0.22-4L-W	37Kvar	220V	550*624*240mm	Forced air cooling
YIY ASVG-50-0.22-4L-W	50Kvar	220V	550*624*240mm	Forced air cooling

*If you need any other sizes, please contact us for customization.

• Product Dimensions

FCL



• Models

Model	Capacity	System Voltage (V)	Size(W3*D3*H3)	Cooling Mode
YIY ASVG-50-0.4-4L-C	50Kvar	400V	800*1000*2200mm 800*1000*1600mm optional	Forced air cooling
YIY ASVG-100-0.4-4L-C	100Kvar	400V	800*1000*2200mm 800*1000*1600mm optional	Forced air cooling
YIY ASVG-200-0.4-4L-C	200Kvar	400V	800*1000*2200mm 800*1000*1600mm optional	Forced air cooling
YIY ASVG-250-0.4-4L-C	250Kvar	400V	800*1000*2200mm 800*1000*1600mm optional	Forced air cooling
YIY ASVG-300-0.4-4L-C	300Kvar	400V	800*1000*2200mm 800*1000*1600mm optional	Forced air cooling
YIY ASVG-400-0.4-4L-C	400Kvar	400V	800*1000*2200mm 800*1000*1600mm optional	Forced air cooling
YIY ASVG-270-0.5-4L-C	270Kvar	500V	800*1000*2200mm	Forced air cooling
YIY ASVG-360-0.69-4L-C	360Kvar	690V	800*1000*2200mm	Forced air cooling
YIY ASVG-450-0.8-3L-C	450Kvar	800V	800*1000*2200mm	Forced air cooling

*Cabinet 1 can accommodate 5 modules. Cabinet 2 can accommodate 3 modules.

*If you need any other sizes, please contact us for customization.

SiC ASVG

SiC Advanced Static Var Generator

Reactive Power Compensation, Harmonic Control, Three Phase Balance



Advanced Static VAR Generator (ASVG) with SiC technology offers high-efficiency power factor correction, harmonic mitigation, and three phase balance. Featuring SiC power devices, it achieves over 98.5% efficiency, higher power density, faster dynamic response, and enhanced reliability, ensuring comprehensive power quality management.

• Product Features

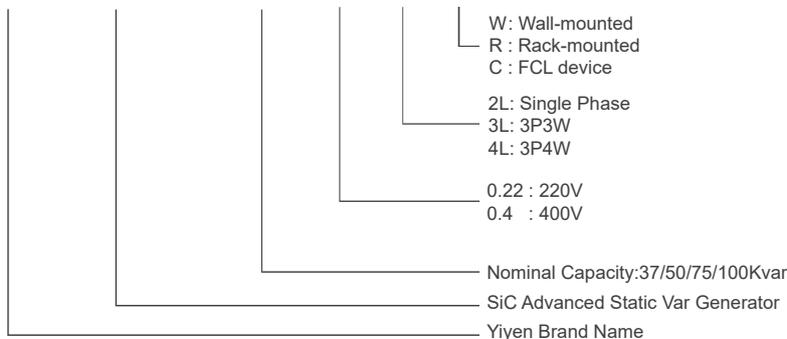
- >98.5% peak efficiency with lower losses from SiC.
- Triple neutral-line filtering capacity versus phase lines.
- Compact size enabled by high-density SiC power modules.
- Capacitive and Inductive compensation: -1 to +1
- Mitigation of 2nd to 50th harmonic mitigation.
- Unit capacity can be selected in any proportion between power factor correction and harmonics correction.
- Current unbalance correction can correct for load unbalance across all three phases.

• Technical Specifications

Technical Specification	220V Series	400V Series
Rated Compensation Capacity	37KVar / 50Kvar	75KVar / 100Kvar
Nominal Voltage	AC220V (-20%~+20%)	AC400V (-20%~+20%)
Rated Frequency	50/60Hz (45Hz-63Hz)	
Grid Structure	3 phase 3 wire/3 phase 4 wire	
Number of parallel	No limitation. A single centralized monitoring module can be equipped with up to 8 power modules.	
Machine Efficiency	>98.5%	
Switching Efficiency	30kHz	
Function	Reactive power compensation / Harmonics filter / Three phase balance	
Compensation Rate	Reactive power compensation ≥98%, Harmonics filter ≥95%, Three phase balance ≥95%	
Neutral Line Filtering Capability	The filtering capacity of 3 phase 4 wire neutral line is 3 times of that of phase filtering	
Harmonic Compensation Times	2nd to 50th times	
Response Time	<10ms	
Noise	≤65dB	
Communication Method	Two-channel RS485 communication interface (support GPRS/WIFI wireless communication)	
Monitoring Method	4.3 inch LCD small-sized screen / 7 inch LCD centralized monitoring screen	
Protection	Over load protection, hardware/software over current protection, over grid power protection /under gridpower protection, grid power voltage imbalance protection, power failure protection, over temperature protection, frequency anomaly protection, short circuit protection, etc	
Altitude Without Derating	<2000m	
Operating Temperature	-10°C ~+50°C (derating above 40°C)	
Relative Humidity	<90% ,The average monthly minimum temperature is 25°C without condensation on the surface	
Pollution Level	Below level III	
Installation	Rack/Wall-mounted	
Wiring	Back entry (rack-mounted type), Top entry (wall-ounted type)	
Protection Grade	IP20	

• Type Code

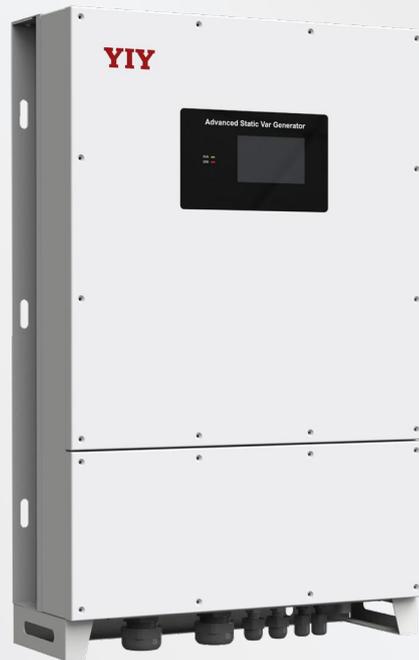
YIY SiC ASVG - 100 - 0.4 - 4L -W



ASVG IP66

Advanced Static Var Generator IP66

Reactive Power Compensation, Harmonic Control, Three Phase Balance



The **Advanced Static VAR Generator (ASVG IP66)** is a new dynamic reactive power compensation product with IP66 protection and a self-cooling system, combining power factor correction, harmonic mitigation and three phase balance in one unit.

• Product Features

- Capacitive and Inductive compensation: -1 to +1
- Mitigation of 2nd to 50th harmonic mitigation
- Three-phase balance
- Built-in a set of grid side CT
- Self-cooling system
- IP66 outdoor

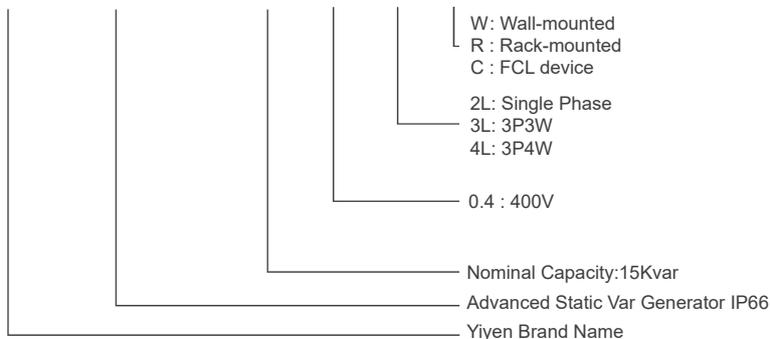


• Technical Specifications

Technical Specification	400V Series
Rated Compensation Capacity	15Kvar
Nominal Voltage	AC400V (-20%~+20%)
Rated Frequency	50Hz/60Hz (45Hz-63Hz)
Grid Structure	3 phase 3 wire/3 phase 4 wire
Number Of Parallel	No limitation. A single centralized monitoring module can be equipped with up to 8 power modules.
Machine Efficiency	>97%
Switching Efficiency	16kHz
Function	Reactive power compensation / Harmonics filter / Three phase balance
Compensation Rate	Reactive power compensation ≥98%, Harmonics filter ≥95%, Three phase balance ≥95%
Harmonic Compensation Times	2nd to 50th times
Response Time	<10ms
Noise	<60dB
Communication Method	Two-channel RS485 communication interface (support GPRS/WIFI wireless communication)
Monitoring Method	4.3 inch LCD small-sized screen / 7 inch LCD centralized monitoring screen
Protection	Over load protection, hardware/software over current protection, over grid power protection /under grid power protection, grid power voltage imbalance protection, power failure protection, over temperature protection, frequency anomaly protection, short circuit protection, etc
Altitude Without Derating	<2000m
Operating Temperature	-20~+50°C (derating above 40°C)
Cooling Method	Natural convection
Relative Humidity	<90% ,The average monthly minimum temperature is 25°C without condensation on the surface
Pollution Level	Below level III
Installation	Wall-mounted
Wiring	Top entry (wall-ounted type)
Protection Grade	IP66

• Type Code

YIY ASVG IP66 - 15 - 0.4 - 4L -W



AVC

Active Voltage Conditioner

Voltage Sag Correction, Surge Correction ,Continuous Voltage Regulation and Load Voltage Compensation.



Active Voltage Conditioner (AVC) is an electronic device that regulates and stabilizes the voltage of an electrical power system. AVC is used to control the reactive power in an electrical system, but it also provides additional functionality to regulate the system's voltage.

AVC uses advanced control algorithms and digital signal processing technology to detect voltage fluctuations and harmonics in the system and respond quickly to correct them. They can also provide voltage regulation and power factor correction, reducing energy consumption and improving the efficiency of the system.

AVC is commonly used in applications where a stable and reliable power supply is critical, such as data centers, hospitals, and industrial facilities. They can also be used in renewable energy systems to improve the stability and efficiency of the power supply.

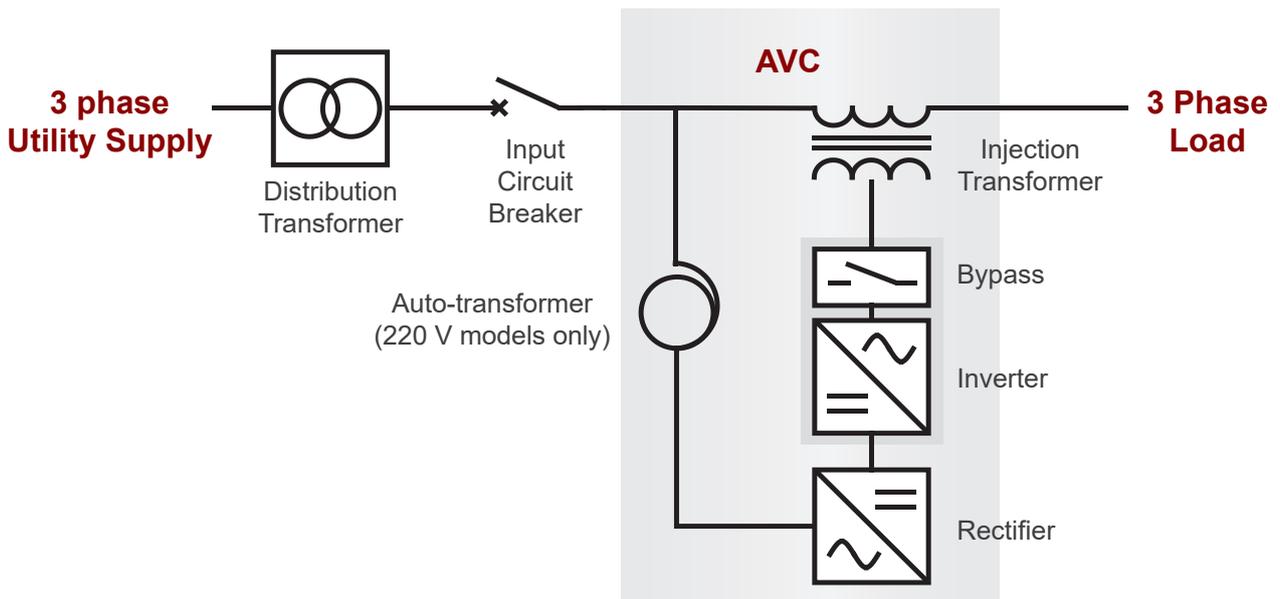
Overall, an Active Voltage Conditioner is a high-performance solution for regulating and stabilizing the voltage of an electrical power system, providing several benefits such as improved voltage stability, reduced power losses, improved power factor, and harmonic filtering.

• Working Principle

AVC consists of two converters that are not on the current path between the load and the utility. Instead, the corrective voltage injection is achieved by means of a transformer winding between the utility and the sensitive load. This configuration results in a very efficient and effective method to provide voltage correction with reduced risk of negative impacts on the load.

AVC requires no batteries as it draws the additional energy required during sag to make up the correction voltage from the utility supply. With no ongoing maintenance costs typically associated with batteries the cost of ownership for AVC systems is very small.

Furthermore, AVC contains a redundant internal bypass system that, in the event of overload or internal fault condition, ensures that the load is continued to be supplied from the utility.



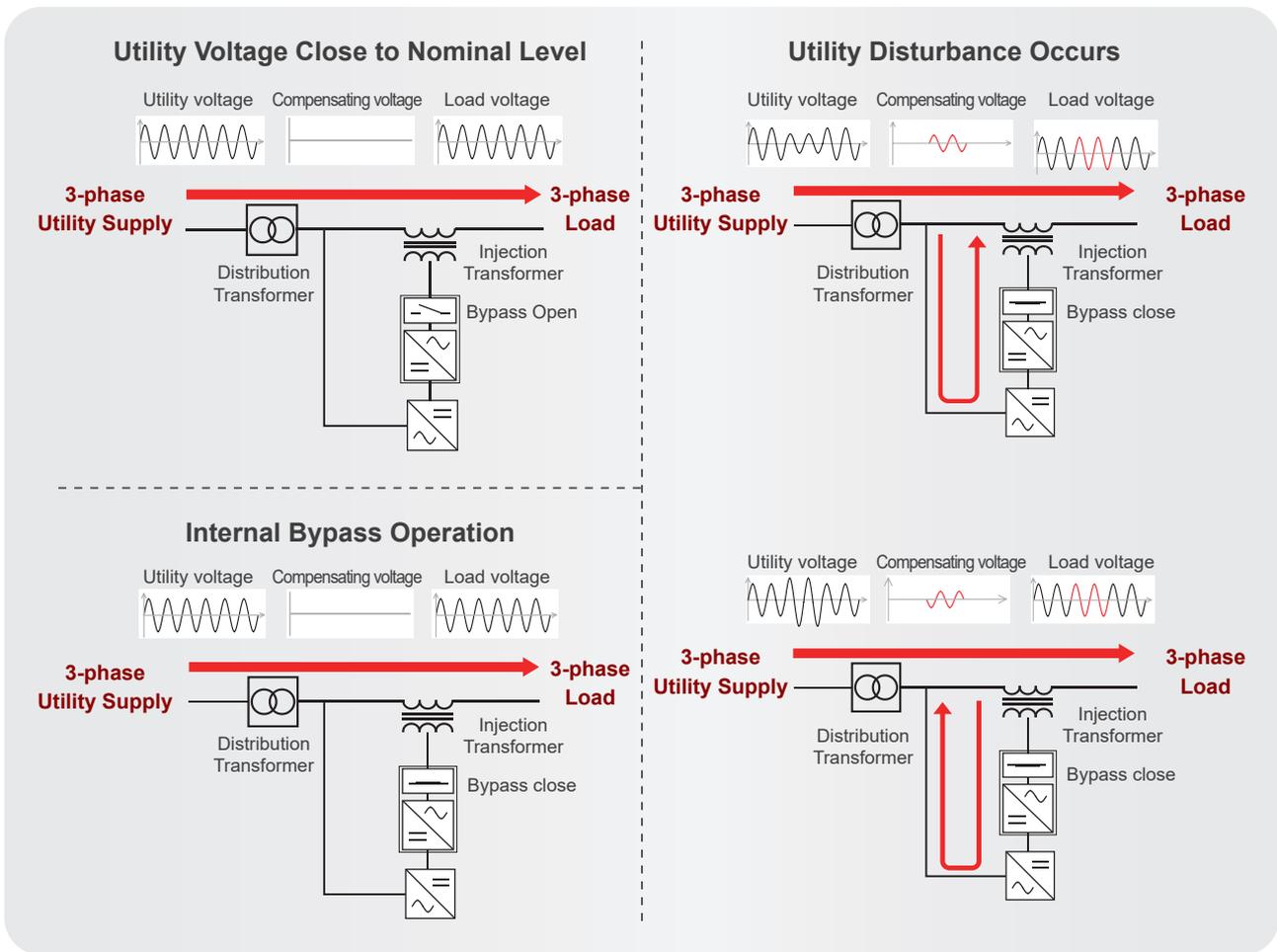
• Technical Specifications (European Standard)

Item	Specification		
Capacity	Single Phase	15-50KVA	60KVA-1800KVA (RND)
	Three Phase	30KVA-500KVA	600KVA-3600KVA (RND)
Input	Power System	Three Phase 380V+N(3 Phase 4 Wire) Center ground referenced (TN-S)	
	Range	220V-application range 176-264V 380V-application range 228-456V	
	Max Supply Voltage	130%	
	Frequency	50Hz/60Hz ±5Hz	
	Outage-Control Ride Through	10ms	
	Harmonics	THDv<3%	
Output	Voltage	220V/380V	
	Regulation Mode	Contactless	
	Equivalent Impedance	< 4%(model specific)	
	Control Model	independent control on each phase	
	Partial Correction Derating Conditions	1.0 PF at 80% load,0.8 PF at 100% load	
	Power Factor	0 lagging to 0.9 leading	
	Crest Factor	300%	
	Overload Capacity From 100% Supply Voltage	150% for 21s,once every 500s	
Performance	Efficiency	Typically > 95%	
	Sag Correction Response	Initial <250ps Complete <1/2 cycle	
	Voltage Regulation Accuracy	<+0.5% typical,±2% max	
	Sag Correction Accuracy	±4%	
	Continuous Regulation Range	±10%	
	Sag Correction Performance Three Phase Sags Single Phase	60% to 100% for 30s 50% to 90% for 10s 40% to 100% for 10s	
	Partial Correction Derating Conditions	1.0 PF at 80% load / 0.8 PF at 100% load	
	Bypass	Manual bypass, Automatic bypass	
Overload Protection	Capacity	100% of model rating (Kva)	
	Maximum Overload	120% for 60 s 150% for 15 s 1500% for 1s	
	Transfer Time	To Bypass < 0.5 ms / To Bypass < 250 ms	
	Equivalent Series Impedance	Bypass < 2.5% typical	
Injection Transformer	Transformer Type	Dry	
	Insulation	IEC 60085 Thermal class 200	
	Frequency	50Hz / 60Hz	
	Vector Group	Diii (delta + 3 independent windings)	
Protection	Input over/low voltage protection/output over/low voltage protection,input over current protection,TX over heat protection,overload protectcn	Internal	
Display	7 inch Touch Screen	Parameter control, power info,display,fault log, history curve line, etc.	
Environment	Operating Temperature Range	0°C to 50° C (32° F to 122° F)	
	Temperature Derating	Above 40°C, derate at 2% load per °C to a maximum of 50°C	
	Operating Altitude	< 1000 m without derating	
	Derating With Altitude	1% every 100m above 1500m. 2000m max	
	Inverter Cooling	Forced ventilation	
	Transformer Cooling	Natural convection	
	Humidity	<95%, non-condensing	
	Pollution Degree Rating	200%	
	Noise	<75dBA@1 m	
	Working Temperature	-25~+45°C	
Storage Temperature	-30~+70°C		
Protection Grade	IP54		

• Technical Specifications (American Standard)

Item	Specification	
Capacity	15KVA-100KVA	
Input	Power System	Single Phase 127V
		Dual Phase 120V/240V
		Three Phase 220V
	Range	±20%
	Max Supply Voltage	130%
	Frequency	50Hz/60Hz ±5Hz
Output	Response Time	10ms
	Harmonics	THDv<3%
	Accuracy	±0.5%
	Regulation Mode	Contactless
	Equivalent Impedance	< 4%(model specific)
	Control Model	independent control on each phase
	Partial Correction Derating conditions	1.0 PF at 80% load,0.8 PF at 100% load
	Power Factor	0 lagging to 0.9 leading
	Crest Factor	300%
	Overload Capacity From 100% Supply Voltage	150% for 21s,once every 500s
Performance	Efficiency	Typically > 95%
	Sag Correction Response	Initial <250ps Complete <1/2 cycle
	Voltage Regulation Accuracy	<+0.5% typical,±2% max
	Sag Correction Accuracy	±4%
	Continuous Regulation Range	±10%
	Sag Correction Performance Three Phase Sags Single Phase	60% to 100% for 30s 50% to 90% for 10s 40% to 100% for 10s
	Partial Correction Derating Conditions	1.0 PF at 80% load / 0.8 PF at 100% load
Overload Protection	Bypass	Manual bypass, Automatic bypass
	Capacity	100% of model rating (Kva)
	Maximum Overload	120% for 60 s 150% for 15 s
	Transfer Time	To Bypass < 0.5 ms / To Bypass < 250 ms
	Equivalent Series Impedance	Bypass < 2.5% typical
Injection Transformer	Transformer Type	Dry
	Insulation	IEC 60085 Thermal class 200
	Frequency	50Hz / 60Hz
	Vector Group	Diii (delta + 3 independent windings)
Protection	Input over/low voltage protection/output over/low voltage protection,input over current protection,TX over heat protection,overload protectcn	Internal
Display	7 inch Touch Screen	Parameter control, power info,display,fault log, history curve line, etc.
Environment	Operating Temperature Range	0°C to 50° C (32° F to 122° F)
	Temperature Derating	Above 40°C, derate at 2% load per °C to a maximum of 50°C
	Operating Altitude	< 1000 m without derating
	Derating With Altitude	1% every 100m above 1500m. 2000m max
	Inverter Cooling	Forced ventilation
	Transformer Cooling	Natural convection
	Humidity	<95%, non-condensing
	Pollution Degree Rating	200%
	Noise	<75dBA@1 m
	Working Temperature	-25~+45°C
Storage Temperature	-30~+70°C	
Protection Grade	IP54	

Operational Detail



Applications

- Electronics industry



- Continuous process



- Food and beverage



- Pharmaceutical industry



- Automotive



- Medical industry



CVCF

IGBT Type Single Phase AVR

Voltage and Frequency Stabilisers



Input voltage range:

- ◆ 85-270VAC, 1Phase, 2Wire, +Earth

Input frequency range:

- ◆ 35-70Hz

Features:

- ◆ Correction time 10ms
- ◆ Output accuracy +/-0.5%
- ◆ Output wave form distortion THD<3%
- ◆ Effect of Power factor PF>0.99
- ◆ Frequency protection
- ◆ Compatible with generator

• Technical Parameter

Parameters	Power Rating	5KVA	10KVA
Input Voltage	Nominal Voltage Rating	230VAC 1Phase, 2Wire, +Earth	
	Voltage Range	85-270VAC	
	Frequency	35-70Hz	
Output Voltage	Voltage	220V/230V/240V ± 0.5%	
	Correction Time	10ms	
	Voltage Regulation	±0.5%	
	Output Wave Form Distortion	THD<3%	
	Output Frequency	50/60Hz	
	Power Factor	PF>0.99	
	Protection	Automatic Bypass	Yes
Manual Bypass		Yes	
Input Under Voltage		80±1V	
Input Over Voltage		280±3V	
Output Under Voltage		184V/@220V 192V/@230,201V/@240V	
Output Over Voltage		246V/@220V,250V/@230V,260V/@240V	
Over-temperature		Module: 80°C Protection/Recovery at 65°C	
Output Overload		110%>&<120%-5S,(3 times) 120%>&<150%-2S (3 times) >150% cut off immediately	
Display/Indication	Display Mode	LCD/LED	
	Communication	RS485	
Physical Parameter	Efficiency	Better Than 95%	
	Cooling Method	Forced cooling	
	IP	IP20	
	Temperature	0-45°C	
	Humidity	0-95%(RH-Non Condensing)	
	Noise	<60dB	
	Product Size	501*328*128.5 mm	580*358*128.5 mm
	Shipping Size	590*440*240 mm	670*470*240 mm
	Product Weight	10KG	12KG
	Shipping Weight	12KG	14KG

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