

**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



**30000m<sup>2</sup>+**  
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 310653 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.

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Room 603, Floor 6, Building 1, No.74, Puyan Road, Puyan Street, Binjiang District, Hangzhou City, Zhejiang Province, China 310653 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.

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**ZHEJIANG QUANPIN CERTIFICATION CO.,LTD.**  
Room 603, Floor 6, Building 1, No.74, Puyan Road, Puyan Street, Binjiang District, Hangzhou City, Zhejiang Province, China 310653 WEB: <http://www.qpc.org.cn>

KES TESTING CERTIFICATION

### Certificate of Conformity



**Certification No.:** KESJC2022091465  
**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.



Shenzhen KES Testing & Certification Co., LTD  
 Room 405, Floor 4th, Building C, Nanshan Technology Industrial Park, Nanshan Street, East An District, Shenzhen, Guangdong, China  
 86-755-23009643 86-755-23009643 http://www.kes-test.com

### Certificate of Conformity

NO.: ES170318188

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 61000-3-11:2000  
 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.: ES170318088

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.: ES170318088

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.: ES17031829E

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 61000-3-11:2000  
 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.: ES17031829S

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.: ES170318288

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 61000-3-11:2000  
 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.: ES17031828S

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

### 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.: ES17031828S  
 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: Bldg 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  
 Site in conjunction with: EN 61558-1:2005+A1:2009  
 Test procedure: Compliance with EN 61558-2-12:2011 site in conjunction 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.

TRF No. EN 61558-2-12 Page 1 of 52 Report No.: ES17031828S Ver. 1.0

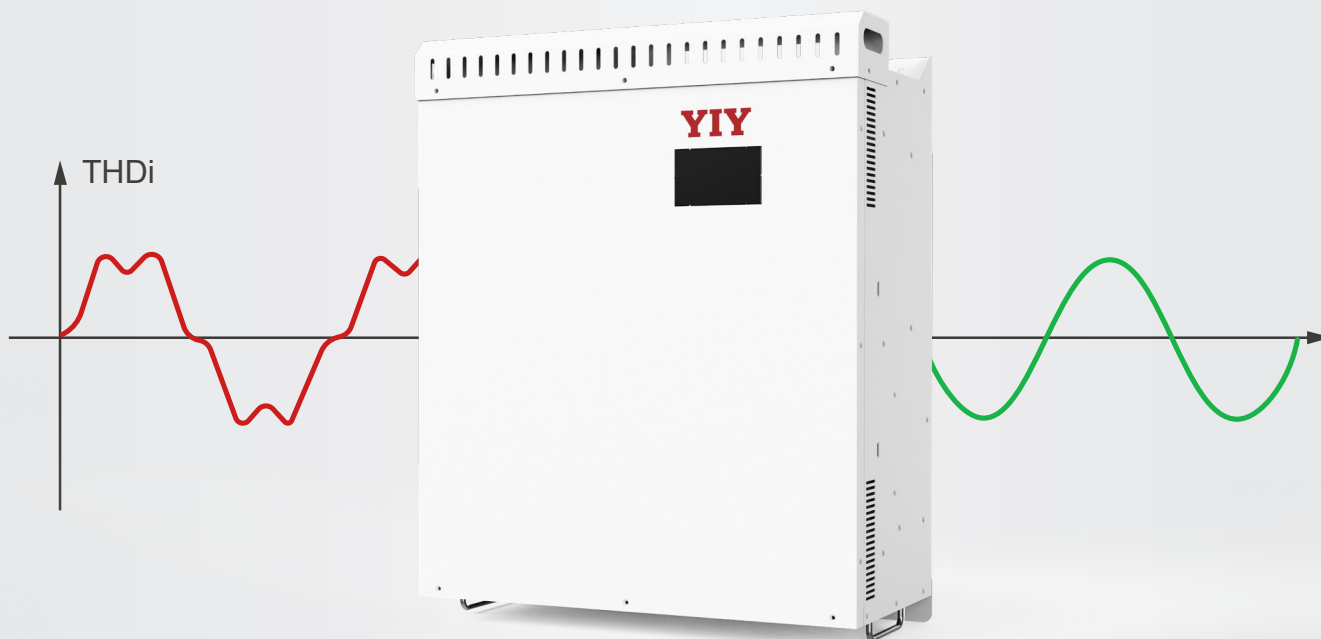


# PRODUCT CATALOGUE

|   |    |
|---|----|
| <b>AHF</b> Active Harmonic Filter                   | 01 |
| <b>SVG</b> Static Var Generator                     | 07 |
| <b>ASVG</b> Advanced Static Var Generator           | 13 |
| <b>ASVG CW</b> Advanced Static Var Generator CW     | 19 |
| <b>SiC ASVG</b> SiC Advanced Static Var Generator   | 22 |
| <b>ASVG IP66</b> Advanced Static Var Generator IP66 | 25 |
| <b>TPQR</b> Terminal Power Quality Regulator        | 27 |
| <b>AVC</b> Active Voltage Conditioner               | 31 |
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# 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.

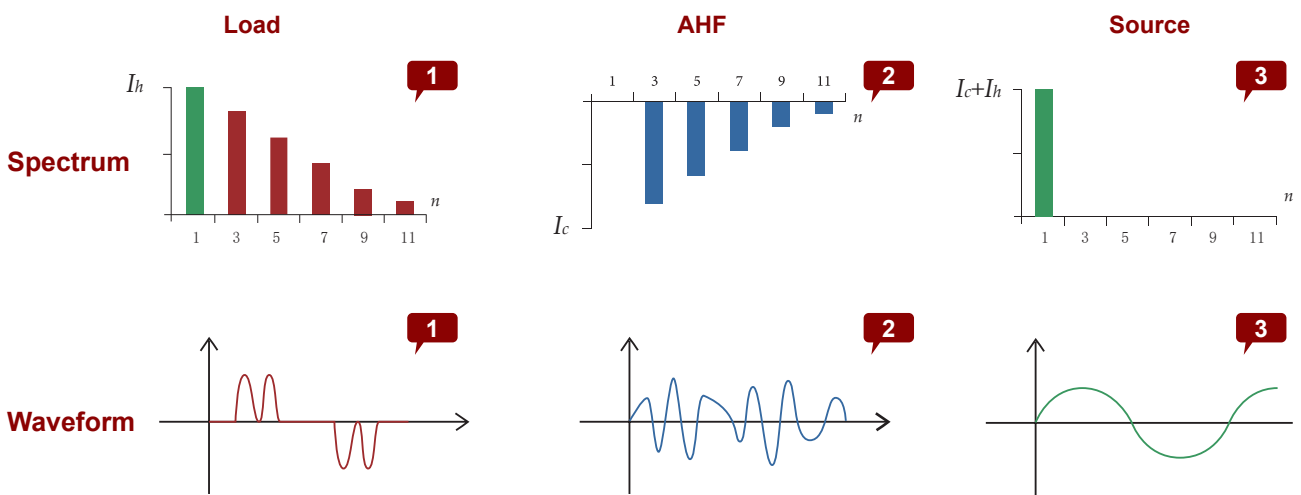
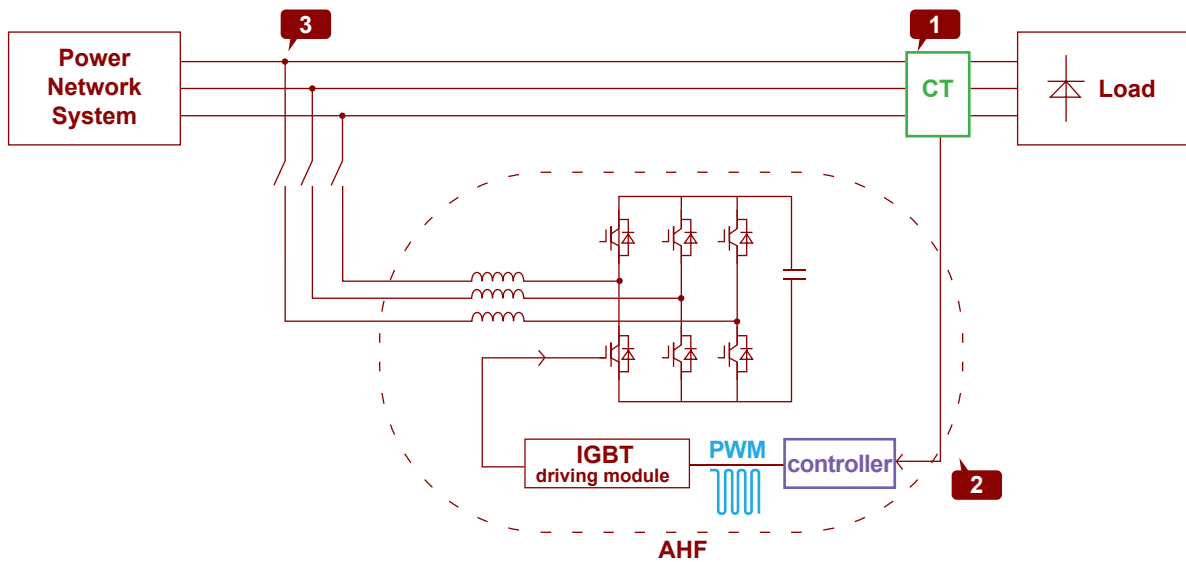
### • Product Features

- Modular design
- Real-time compensation
- 2nd to 50th harmonic mitigation
- Three phase balancing
- Prevent equipment from overheating and failure
- Improve equipment working efficiency

**• 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**

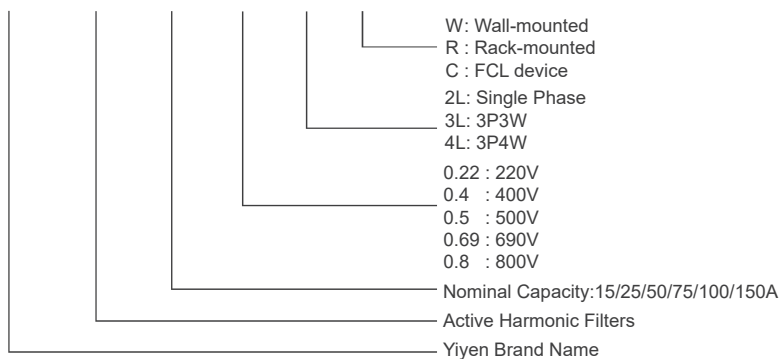


## • Technical Specifications

| Nominal Voltage                   | 220V Series   | 400V/220V Series  | 500V Series           | 690V Series           | 800V Series             |
|-----------------------------------|---|---|-----------------------|-----------------------|-------------------------|
| Rated Compensation Current        | 25A   | 15/25/50/75/<br>100/150/200A  | 100A                  | 100A                  | 100A                    |
| Working Voltage Range             | AC220V<br>(-20%~+20%)   | AC400V<br>(-20%~+15%)<br>/ 220V(-20%~+20%)  | AC500V<br>(-20%~+20%) | AC690V<br>(-20%~+15%) | AC800V<br>(-20%~850VAC) |
| Rated Frequency                   | 50/60Hz(45Hz~63Hz)  |   |                       |                       |                         |
| Grid Structure                    | Single phase  | 3 phase 3 wire/3 phase 4 wire   |                       |                       | 3 Phase 3 Wire          |
| Response Time                     | <40ms   |   |                       |                       |                         |
| Harmonics Compensation            | 2nd to 50th order,8 harmonic orders can be selected and filtered at the same time   |   |                       |                       |                         |
| 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 centralized monitor can control up to 8 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  |   |                       |                       |                         |

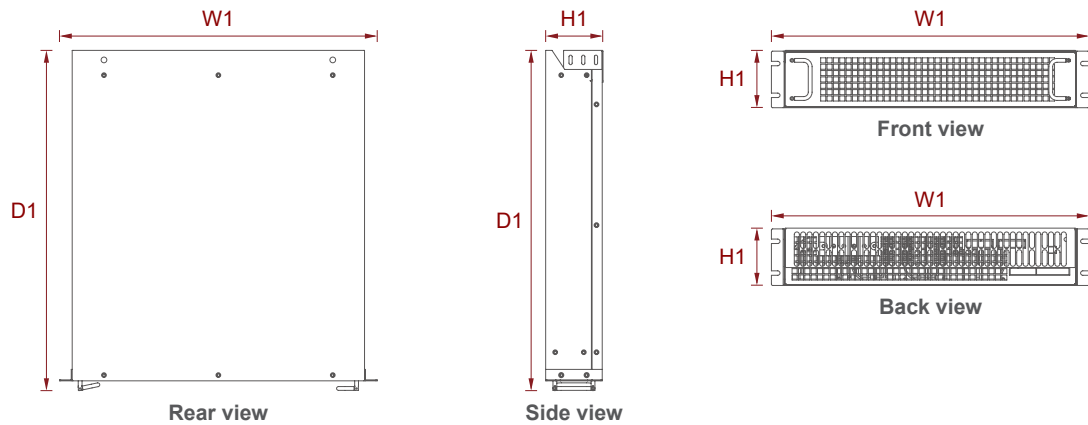
## • Type Code

### YIY AHF - 75 - 0.4 - 4L -W



## • Product Dimensions

### Rack-Mount



## • Models

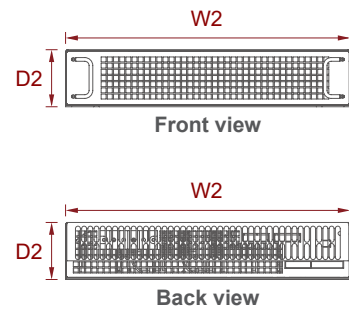
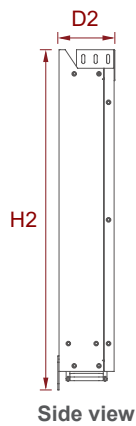
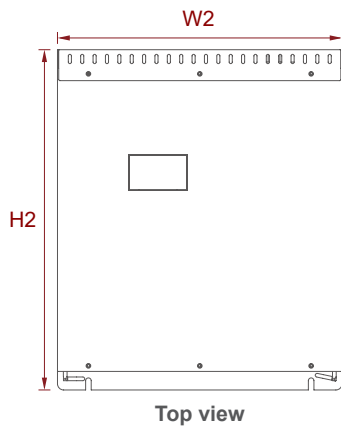
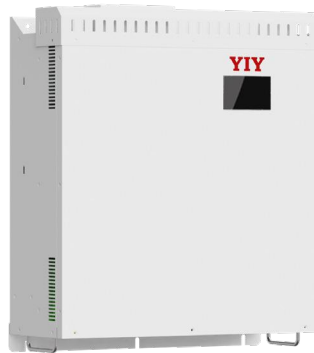
| Model                 | Capacity | System Voltage | Size(W1*D1*H1)  | Cooling Mode       |
|-----------------------|----------|----------------|-----------------|--------------------|
| YIY AHF-23-0.22-2L-R  | 23A      | 220V           | 220*375*167mm   | Forced air cooling |
| YIY AHF-15-0.4-4L-R   | 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

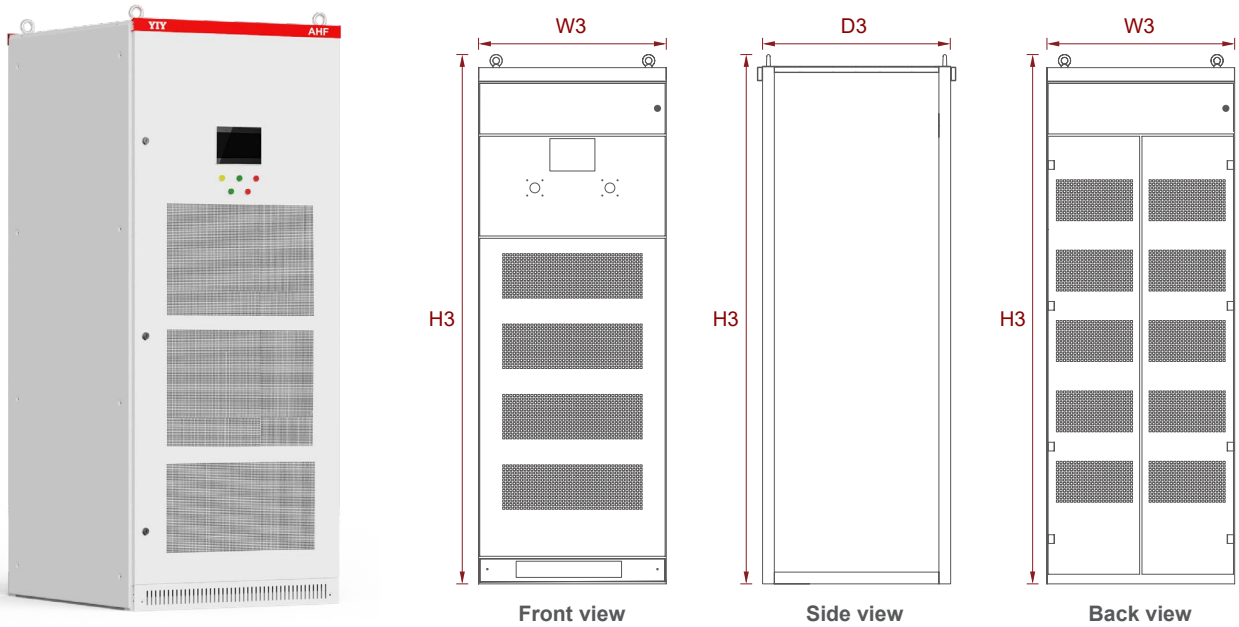
| Model                 | Capacity | System Voltage | Size(W2*D2*H2)  | Cooling Mode       |
|-----------------------|----------|----------------|-----------------|--------------------|
| YIY AHF-23-0.22-2L-W  | 23A      | 220V           | 220*167*375mm   | Forced air cooling |
| YIY AHF-15-0.4-4L-W   | 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<br>800*1000*1600mm<br>optional | Forced air cooling |
| YIY AHF-150-0.4-4L-C  | 150A     | 400V           | 800*1000*2200mm<br>800*1000*1600mm<br>optional | Forced air cooling |
| YIY AHF-200-0.4-4L-C  | 200A     | 400V           | 800*1000*2200mm<br>800*1000*1600mm<br>optional | Forced air cooling |
| YIY AHF-250-0.4-4L-C  | 250A     | 400V           | 800*1000*2200mm<br>800*1000*1600mm<br>optional | Forced air cooling |
| YIY AHF-300-0.4-4L-C  | 300A     | 400V           | 800*1000*2200mm<br>800*1000*1600mm<br>optional | Forced air cooling |
| YIY AHF-400-0.4-4L-C  | 400A     | 400V           | 800*1000*2200mm<br>800*1000*1600mm<br>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.

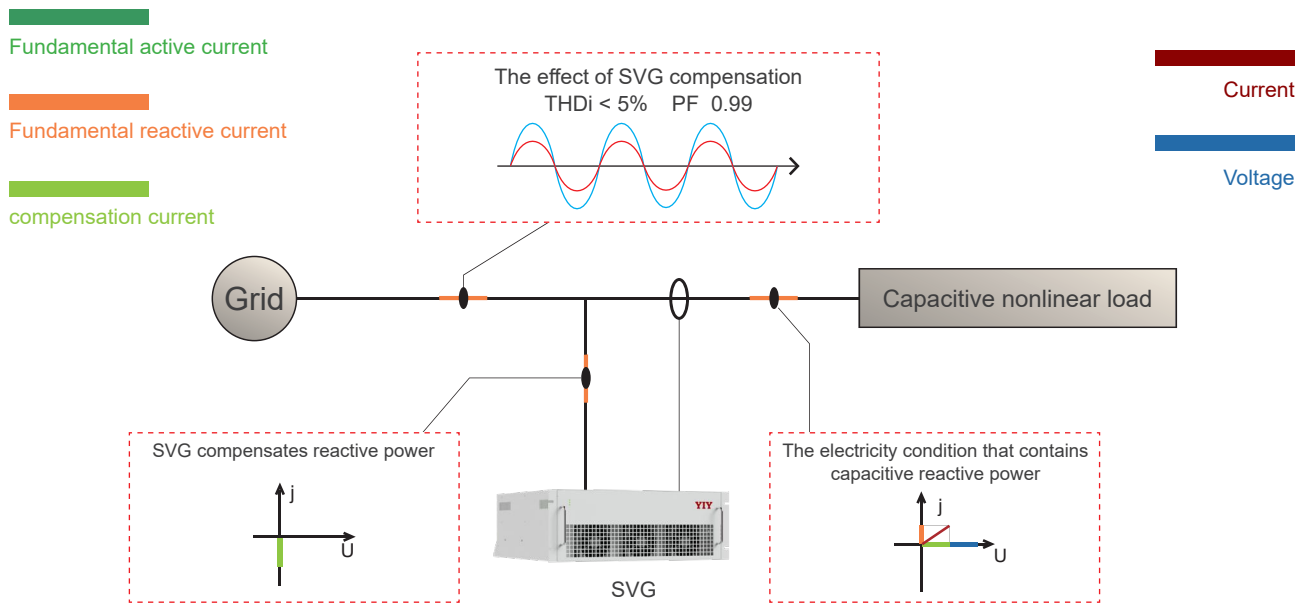
### • Product Features

- Modular design
- Real time Capacitive and Inductive Compensation: -1 to +1
- No over compensation, no under compensation, no resonance
- Three-phase balancing
- Can be used to replace traditional capacitor bank

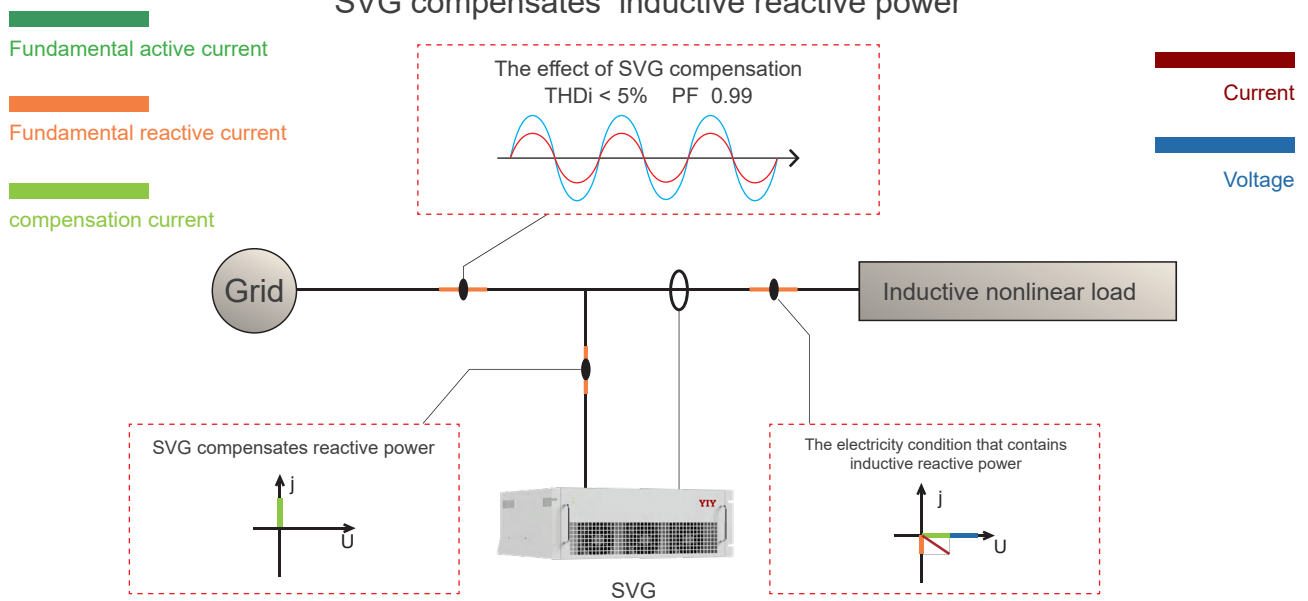
## • Working Principle

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

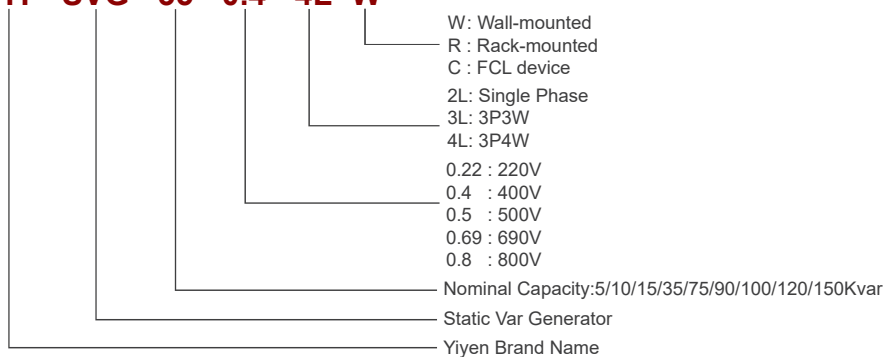


## • Technical Specifications

| Nominal Voltage                  | 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                     |
| Working Voltage Range            | 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              |
| 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 centralized monitor can control up to 8 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   |   |                           |                    |                    |                             |

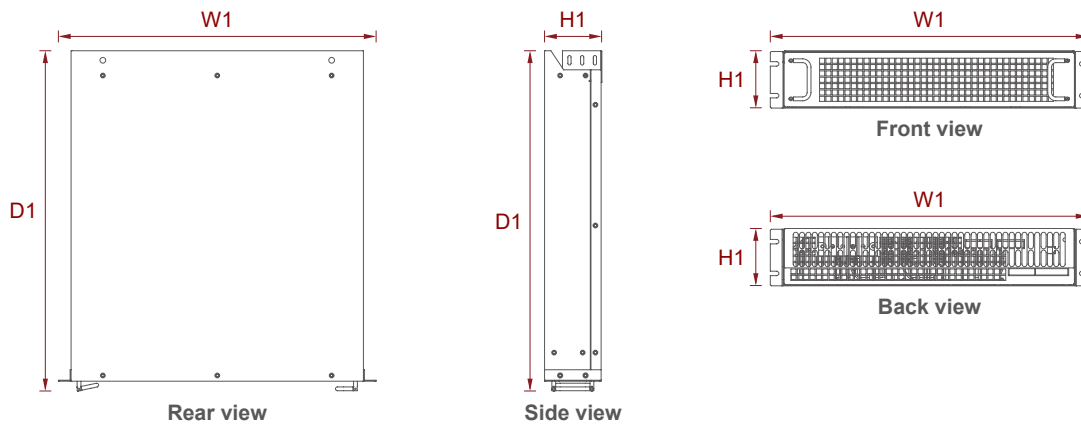
## • Type Code

**YIY SVG - 35 - 0.4 - 4L - W**



## • Product Dimensions

### Rack-Mount



## • Models

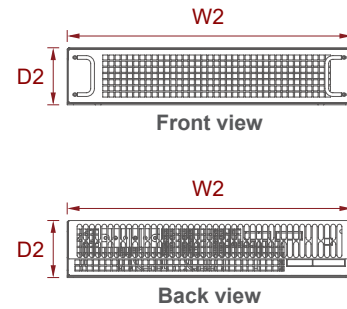
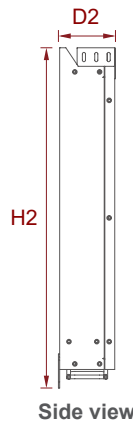
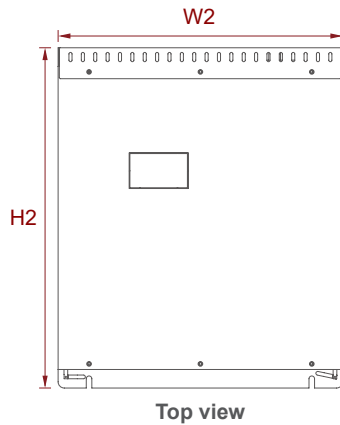
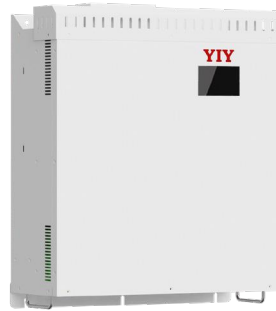
| Model                 | Capacity | System Voltage | Size(W1*D1*H1)  | Cooling Mode       |
|-----------------------|----------|----------------|-----------------|--------------------|
| YIY SVG-5-0.22-2L-R   | 5Kvar    | 220V           | 220*375*167mm   | Forced air cooling |
| YIY SVG-10-0.4-4L-R   | 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

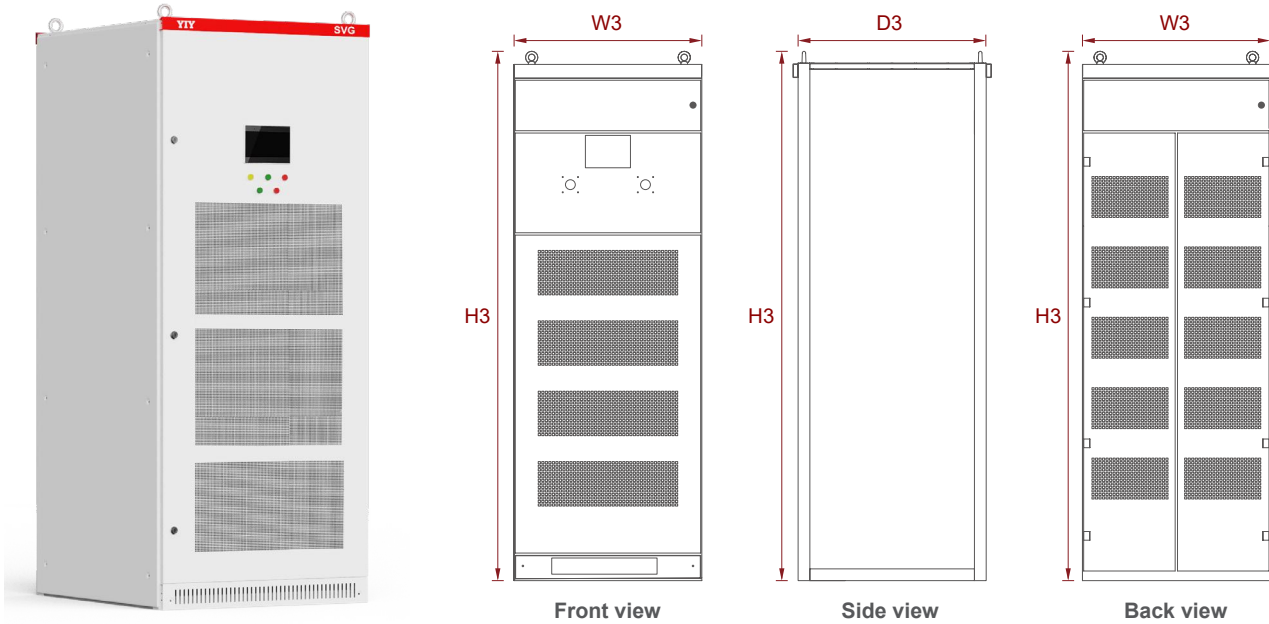
| Model                 | Capacity | System Voltage | Size(W2*D2*H2)  | Cooling Mode       |
|-----------------------|----------|----------------|-----------------|--------------------|
| YIY SVG-5-0.22-2L-W   | 5Kvar    | 220V           | 220*167*375mm   | Forced air cooling |
| YIY SVG-10-0.4-4L-W   | 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<br>800*1000*1600mm<br>optional | Forced air cooling |
| YIY SVG-100-0.4-4L-C  | 100Kvar  | 400V               | 800*1000*2200mm<br>800*1000*1600mm<br>optional | Forced air cooling |
| YIY SVG-200-0.4-4L-C  | 200Kvar  | 400V               | 800*1000*2200mm<br>800*1000*1600mm<br>optional | Forced air cooling |
| YIY SVG-250-0.4-4L-C  | 250Kvar  | 400V               | 800*1000*2200mm<br>800*1000*1600mm<br>optional | Forced air cooling |
| YIY SVG-300-0.4-4L-C  | 300Kvar  | 400V               | 800*1000*2200mm<br>800*1000*1600mm<br>optional | Forced air cooling |
| YIY SVG-400-0.4-4L-C  | 400Kvar  | 400V               | 800*1000*2200mm<br>800*1000*1600mm<br>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.

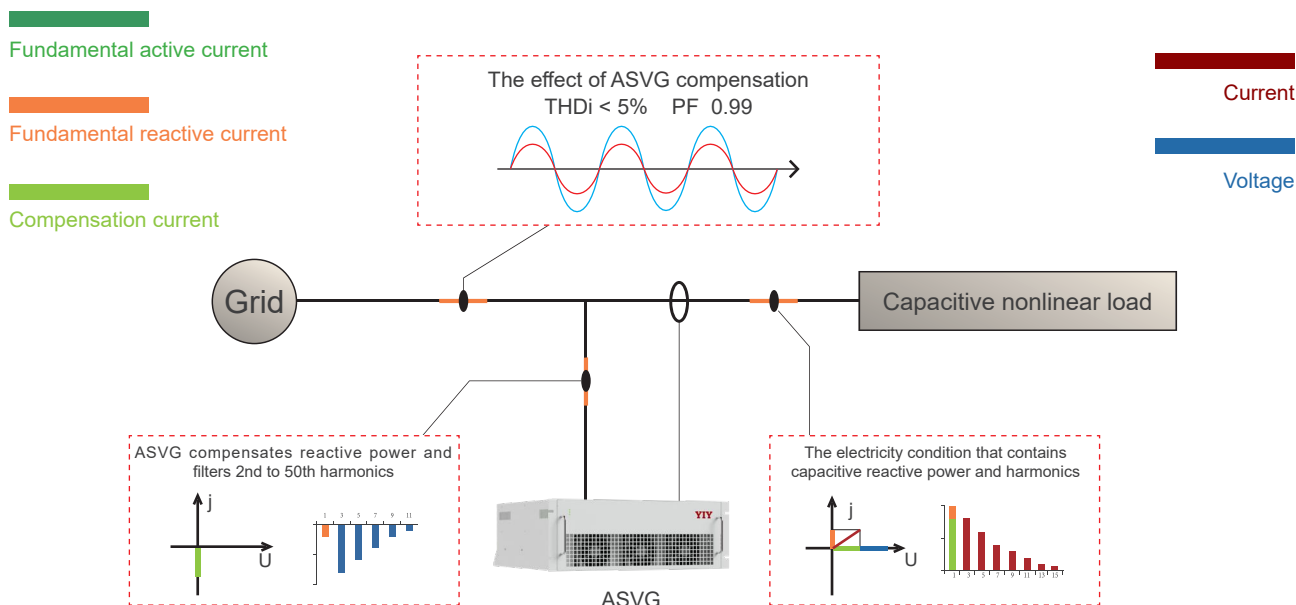
### • Product Features

- All the features and benefits of SVG and AHF
- Different working modes for options
- 2nd to 50th harmonic mitigation
- Real time Compensation Range: -1 to +1 (capacitive to inductive)
- Three phase balancing
- Efficiency  $\geq 97\%$

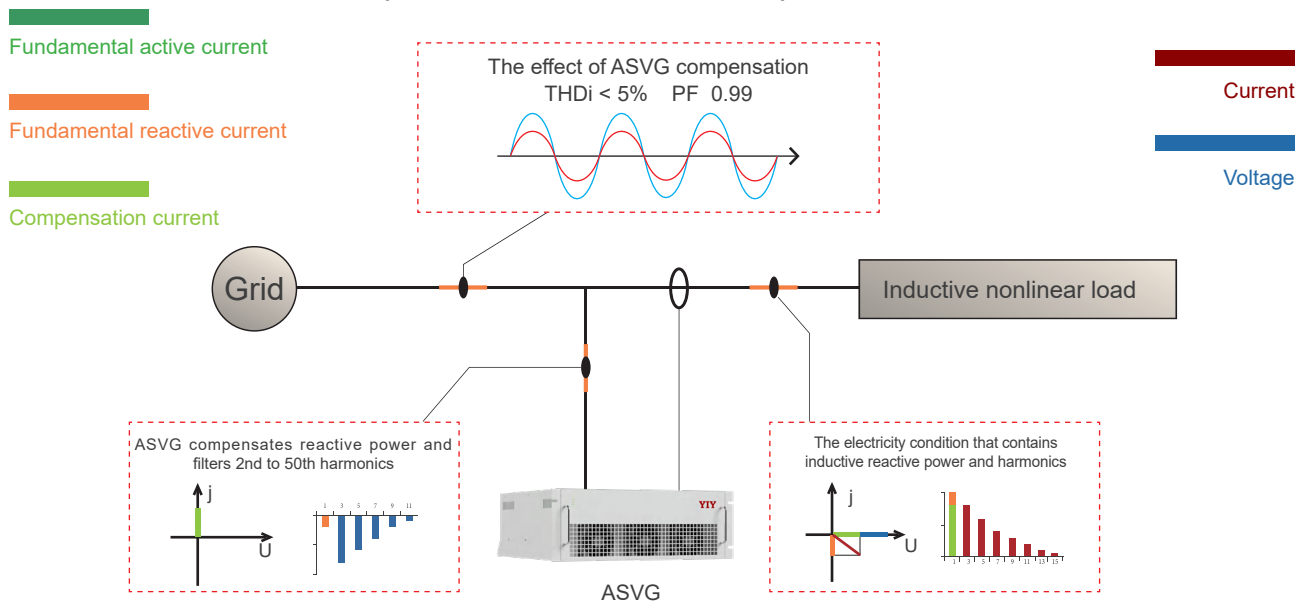
**• Working Principle**

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**

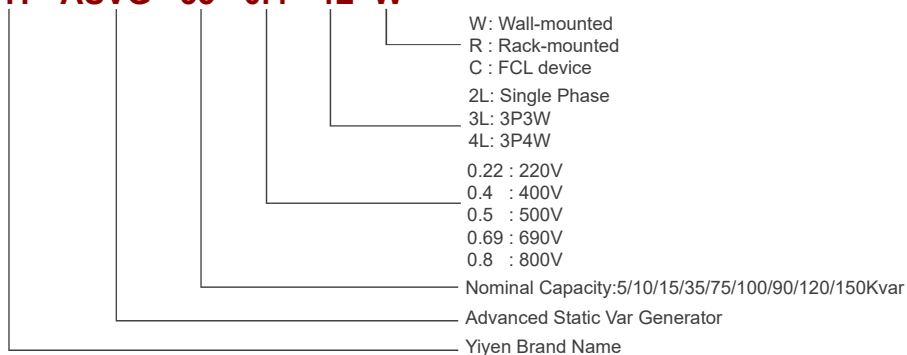


## • Technical Specifications

| Nominal Voltage             | 220V Series   | 220V Series  | 400V Series                     | 500V Series        | 690V Series        | 800V Series                                    |
|-----------------------------|---|--|---------------------------------|--------------------|--------------------|--|
| Rated Compensation Capacity | 5Kvar   | 3/5/7/10/17/25/37/50Kvar   | 5/10/15/20/35/50/75/100/150Kvar | 90Kvar             | 100/120Kvar        | 150Kvar  |
| Working Voltage Range       | 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 centralized monitor can control up to 8 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       | 2nd to 50th order   |  |                                 |                    |                    |  |
| Response Time               | <10ms   |  |                                 |                    |                    |  |
| Noise                       | ≤60dB   | ≤65dB  |                                 |                    |                    |  |
| Communication Method        | Two-channel RS485 communication interface (support GPRS/WIFI wireless communication)  |  |                                 |                    |                    |  |
| HMI                         | 4.3 inch HMI / 7 inch external HMI  |  |                                 |                    |                    |  |
| 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  |  |                                 |                    |                    |  |

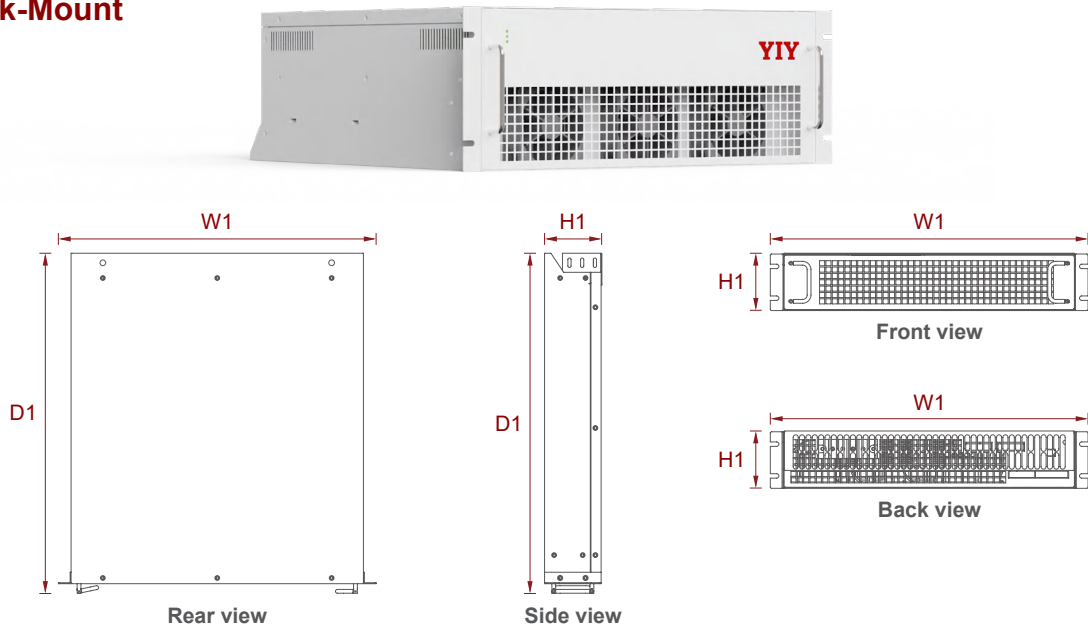
## • Type Code

**YIY ASVG - 35 - 0.4 - 4L -W**



## • Product Dimensions

### Rack-Mount



## • Models

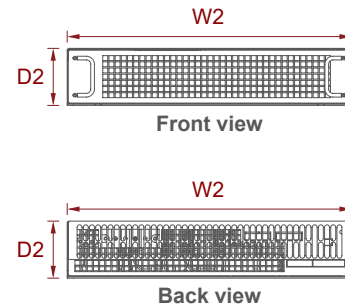
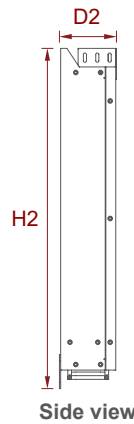
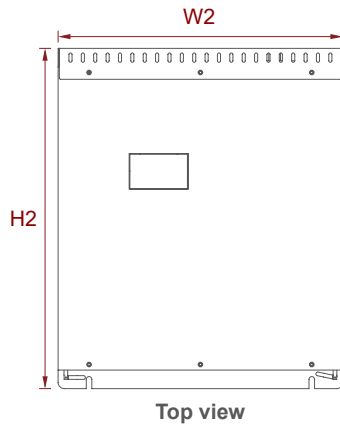
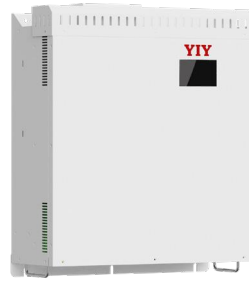
| Model                  | Capacity | System Voltage | Size(W1*D1*H1)  | Cooling Mode       |
|------------------------|----------|----------------|-----------------|--------------------|
| YIY ASVG-5-0.22-2L-R   | 5Kvar    | 220V           | 220*375*167mm   | Forced air cooling |
| YIY ASVG-5-0.4-4L-R    | 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-150-0.4-4L-R  | 150Kvar  | 400V           | 550*785*250mm   | 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

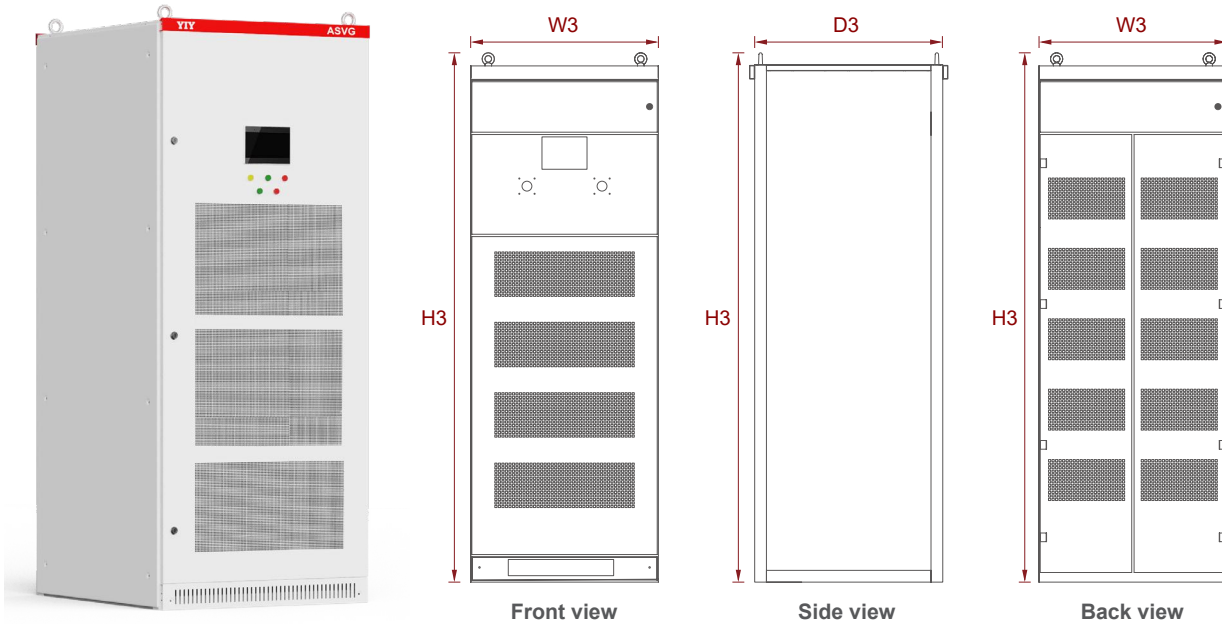
| Model                  | Capacity | System Voltage | Size(W2*D2*H2)  | Cooling Mode       |
|------------------------|----------|----------------|-----------------|--------------------|
| YIY ASVG-5-0.22-2L-W   | 5Kvar    | 220V           | 220*167*375mm   | Forced air cooling |
| YIY ASVG-5-0.4-4L-W    | 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-150-0.4-4L-W  | 150Kvar  | 400V           | 511*252*785mm   | 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<br>800*1000*1600mm<br>optional | Forced air cooling |
| YIY ASVG-100-0.4-4L-C  | 100Kvar  | 400V               | 800*1000*2200mm<br>800*1000*1600mm<br>optional | Forced air cooling |
| YIY ASVG-200-0.4-4L-C  | 200Kvar  | 400V               | 800*1000*2200mm<br>800*1000*1600mm<br>optional | Forced air cooling |
| YIY ASVG-250-0.4-4L-C  | 250Kvar  | 400V               | 800*1000*2200mm<br>800*1000*1600mm<br>optional | Forced air cooling |
| YIY ASVG-300-0.4-4L-C  | 300Kvar  | 400V               | 800*1000*2200mm<br>800*1000*1600mm<br>optional | Forced air cooling |
| YIY ASVG-400-0.4-4L-C  | 400Kvar  | 400V               | 800*1000*2200mm<br>800*1000*1600mm<br>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.

# ASVG CW


## Advanced Static Var Generator CW

Reactive Power Compensation, Harmonic Control, Three Phase Balance



 **Less than 45 dB**

 **Built-in Grid-side CT**

 **20% Volume Less**

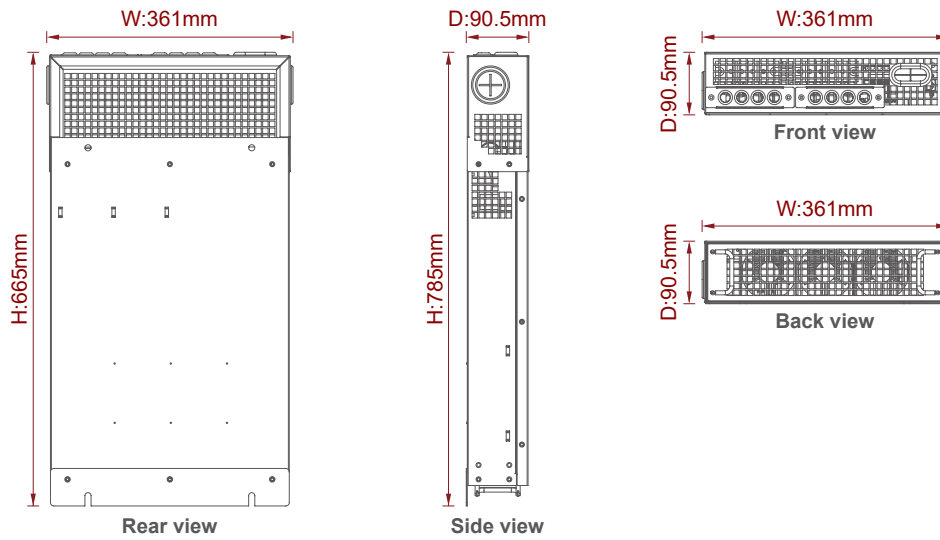
This series features a compact design and low-noise operation technology, with standard capacity ratings covering 3kVar, 5kVar, and 10kVar. Its core advantage lies in the integrated grid-side current transformer (CT) solution, which eliminates the need for external installation. This low noise function makes it particularly well-suited for noise-sensitive environments such as offices and homes.

### • Product Features

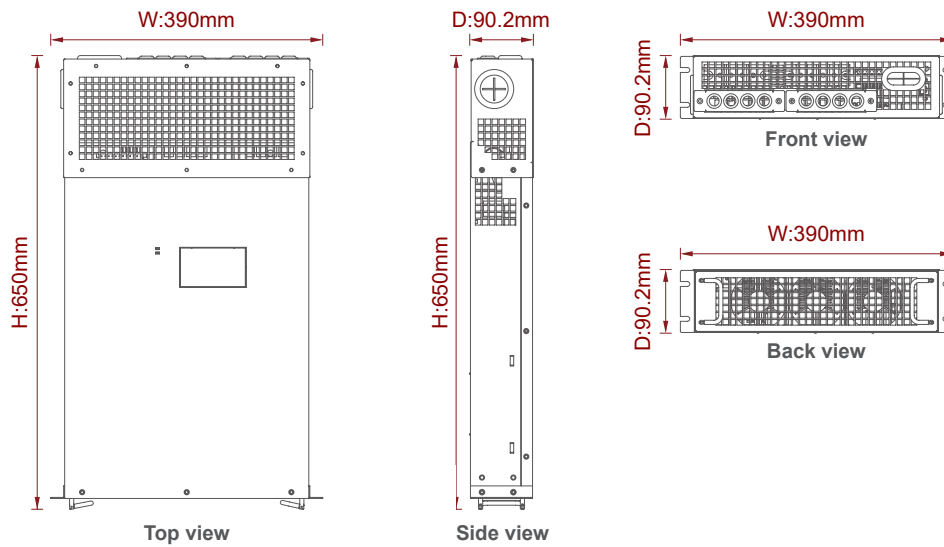
- Compact Design
- Low Noise Level  $\leq 45\text{dB}$
- Built-in Grid-side current transformer(CT)
- Real time Compensation Range: -1 to +1 (capacitive to inductive)
- 2nd to 50th harmonic mitigation
- Three phase balancing

• **Product Dimensions**

**Wall-Mounted**



**Rack-Mount**

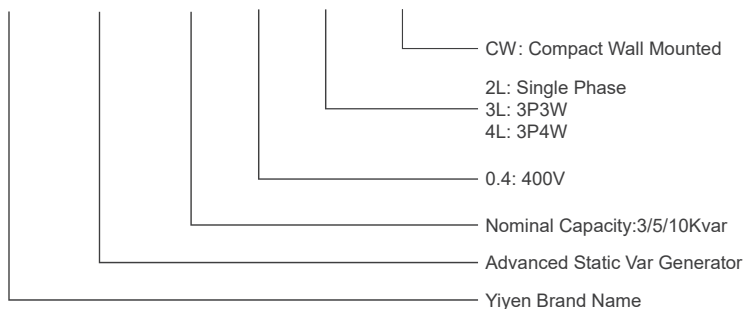


## • Technical Specifications

| Nominal Voltage                     | 400V Series  |               |        |
|-------------------------------------|--|---------------|--------|
| Rated capacity                      | 3kvar  | 5kvar         | 10kvar |
| CT inside                           | 100/1  | 100/5         | 100/5  |
| Working Voltage range               | 304-456V   |               |        |
| Frequency range                     | 45Hz~63Hz  |               |        |
| Grid structure                      | 3-Phase 3-Wire / 3-Phase 4-Wire  |               |        |
| Current range                       | 0-100A   |               |        |
| Switching frequency                 | 16kHz  |               |        |
| Altitude                            | <2000m, above 2000 m, use GB/T3859.2 derated   |               |        |
| Ambient temperature                 | -20°C +50°C (will derate above 40°C )  |               |        |
| Relative humidity                   | ≤90%, monthly minimum temperature 25°C No condensation on the surface  |               |        |
| Pollution level                     | Below class III  |               |        |
| Protection class                    | IP20   |               |        |
| Cooling mode                        | Intelligent air cooling  |               |        |
| Functional performance parameter    |  |               |        |
| Function selection                  | Reactive power, harmonic, unbalance, reactive power + unbalance, harmonic + unbalance, reactive power + harmonic, Reactive power + imbalance + harmonics   |               |        |
| Parallel connection                 | No   | Yes, no limit |        |
| Overall efficiency                  | Full load>97%  |               |        |
| Comprehensive compensation rate     | Reactive power compensation ≥98%, three-phase unbalance compensation ≥95%, 2nd to 50th order comprehensive harmonic compensation ≥95%  |               |        |
| Reactive power compensation time    | <10ms  |               |        |
| Harmonic compensation response time | <40ms  |               |        |
| Neutral filter capability           | The neutral filtering capability is 1.5 times that of the phase filtering capability   |               |        |
| Noise                               | ≤38dB  | ≤40dB         | ≤45dB  |
| Protection function                 | Overload, software/hardware overcurrent, power grid overvoltage and undervoltage, power grid voltage imbalance, power supply failure, overtemperature, abnormal frequency, short circuit protection, etc |               |        |
| Overload ability                    | Rated 1.2 times overload for 60 seconds  |               |        |
| Communication interface             | Two RS485 communication ports (WIFI support)   |               |        |
| Communication protocol              | Modbus   |               |        |
| HMI                                 | Supports 4.3 inch HMI and 7 inch external HMI  |               |        |
| Dimensions (W*D*H)                  | 390*90.2*525mm   |               |        |
| Installation mode                   | Wall mounted   |               |        |
| Incoming mode                       | Top entry (wall mounted)   |               |        |

## • Type Code

### YIY ASVG - 10 - 0.4 - 4L - CW



# SiC ASVG

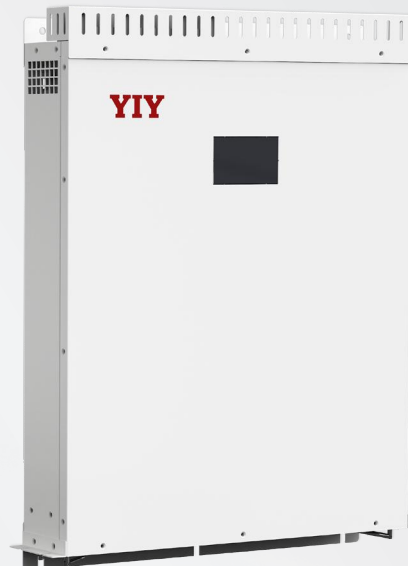
## SiC Advanced Static Var Generator

Reactive Power Compensation, Harmonic Control, Three Phase Balance

**SiC** SiC MOSFET

Efficiency >99%

Ultra-slim Design



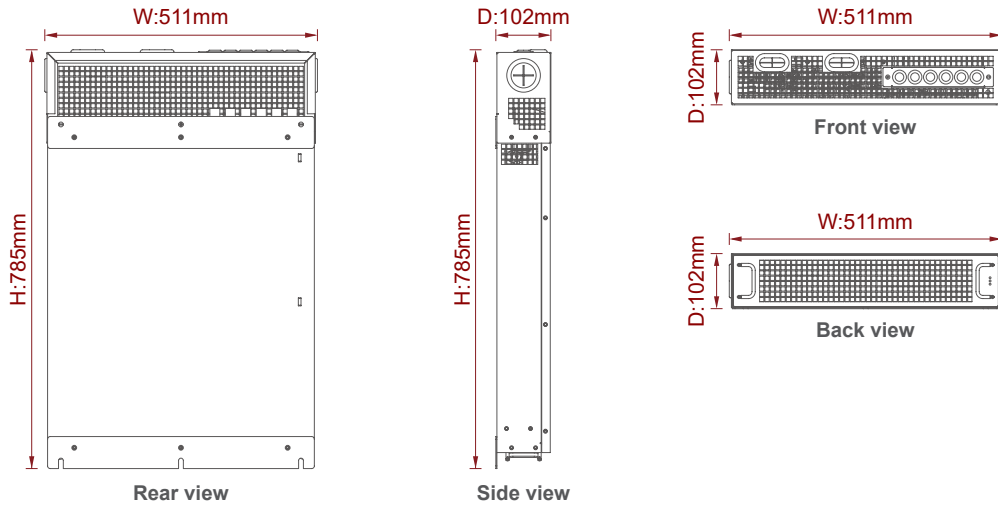
**Advanced Static VAR Generator (ASVG)** with SiC technology offers high-efficiency power factor correction, harmonic mitigation, and three phase balance. Featuring SiC power devices, it achieves over 98.5% efficiency, higher power density, faster dynamic response, and enhanced reliability, ensuring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

### • Product Features

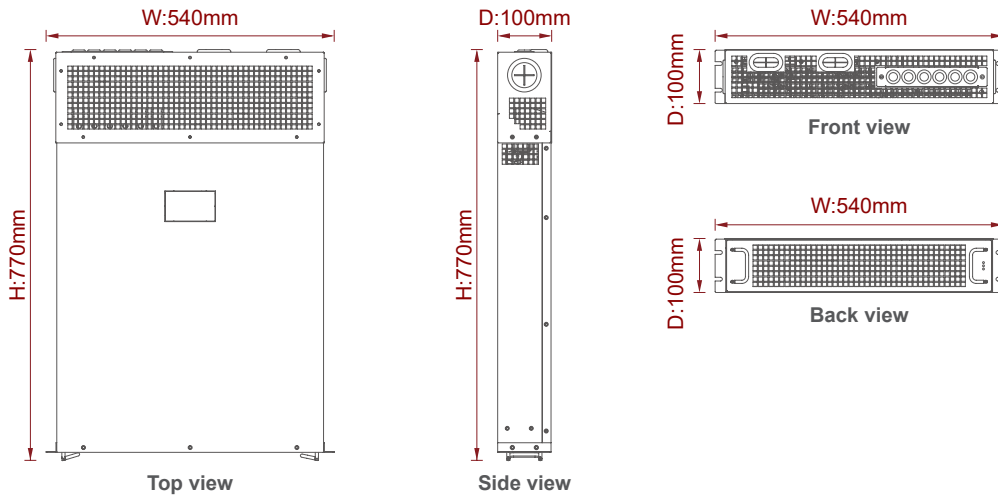
- Three-level topology technology
- Triple neutral-line filtering capacity
- >99% peak efficiency with lower losses from SiC
- Compact size enabled by high-density SiC power modules
- Real time Compensation Range: -1 to +1 (capacitive to inductive)
- 2nd to 50th harmonic mitigation
- Three phase balancing

## • Product Dimensions

### Wall-Mounted

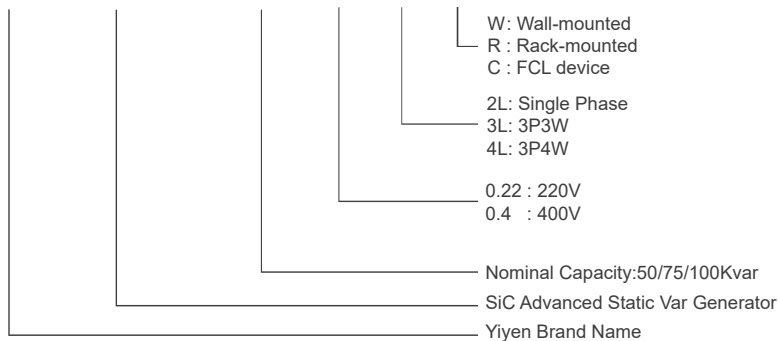


### Rack-Mount



**• Technical Specifications**

| Nominal Voltage                   | 220V Series  | 400V Series           |
|-----------------------------------|--|-----------------------|
| Rated Compensation Capacity       | 37KVar / 50Kvar  | 75KVar / 100Kvar      |
| Working Voltage Range             | AC220V<br>(-20%~+20%)  | AC400V<br>(-20%~+20%) |
| Rated Frequency                   | 50/60Hz (45Hz-63Hz)  |                       |
| Grid Structure                    | 3 phase 3 wire/3 phase 4 wire  |                       |
| Number of parallel                | No limitation. A centralized monitor can control up to 8 modules   |                       |
| Machine Efficiency                | >99%   |                       |
| 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             | 2nd to 50th order  |                       |
| Response Time                     | <10ms  |                       |
| Noise                             | ≤65dB  |                       |
| Communication Method              | Two-channel RS485 communication interface (support GPRS/WIFI wireless communication)   |                       |
| HMI                               | 4.3 inch HMI / 7 inch external HMI   |                       |
| 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             | -20°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-mounted type)   |                       |
| Protection Grade                  | IP20   |                       |

**• Type Code**
**YIY SiC ASVG - 100 - 0.4 - 4L -W**


# ASVG IP66

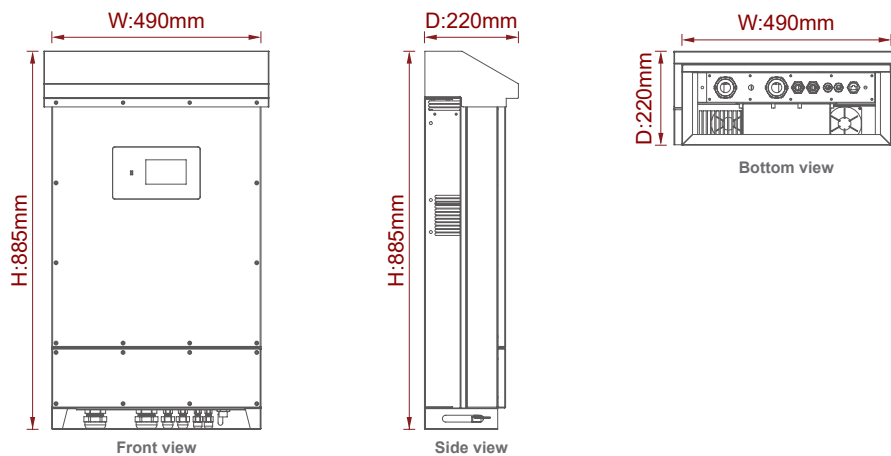
## Advanced Static Var Generator IP66

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 Dimensions



### • Product Features

- IP66 Enclosure (suitable for outdoor installation)
- Self-Cooling System
- Built-in Grid-side current transformer( CT)
- Real time Compensation Range: -1 to +1 (capacitive to inductive)
- 2nd to 50th harmonic mitigation
- Three phase balancing

### • Technical Specifications

| Nominal Voltage             | 400V Series   |
|-----------------------------|---|
| Rated Compensation Capacity | 15Kvar  |
| Working Voltage Range       | AC400V<br>(-20%~+20%)   |
| Rated Frequency             | 50Hz/60Hz (45Hz-63Hz)   |
| Grid Structure              | 3 phase 3 wire/3 phase 4 wire   |
| Number Of Parallel          | No limitation. A centralized monitor can control up to 8 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       | 2nd to 50th order   |
| Response Time               | <10ms   |
| Noise                       | <60dB   |
| Communication Method        | Two-channel RS485 communication interface (support GPRS/WIFI wireless communication)  |
| HMI                         | 4.3 inch HMI / 7 inch external HMI  |
| 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 cooling   |
| 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-mounted type)   |
| Protection Grade            | IP66  |

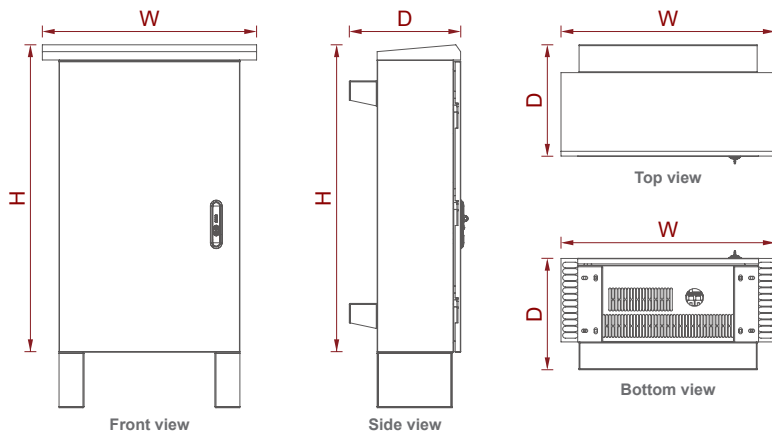
# TPQR

## Terminal Power Quality Regulator



The **Terminal Power Quality Regulator (TPQR)** is applied at the end of low-voltage distribution lines with high new energy penetration, long transmission lines, or heavy loads. It addresses issues such as three-phase voltage imbalance caused by new energy integration, voltage fluctuations for end-users, and three-phase current imbalance. Featuring a modular design and standard energy interfaces, it enables convenient installation and maintenance. The TPQR provides multiple functions, including reactive power compensation, harmonic filter, three-phase imbalance compensation, and precise terminal voltage regulation.

### • Product Dimensions

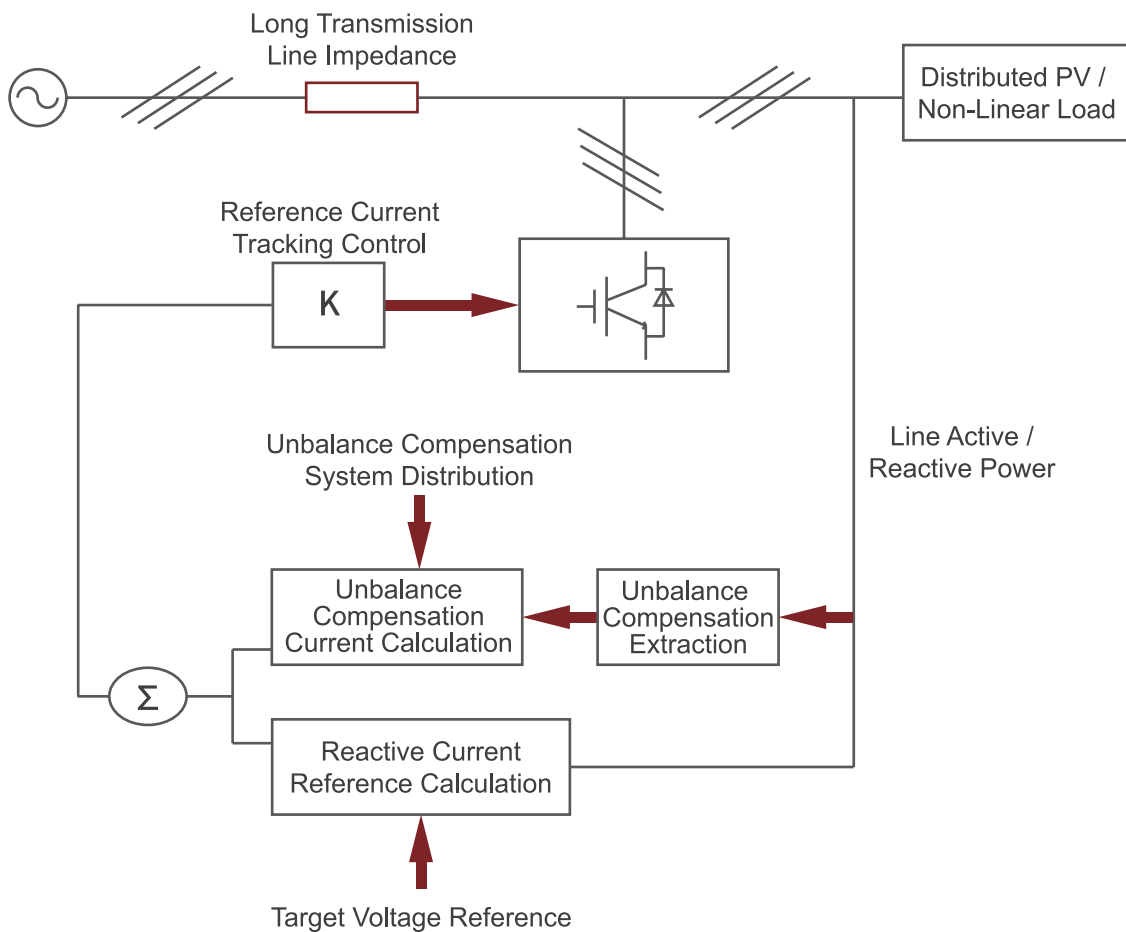


| Model          | Size(W*D*H)(mm) |
|----------------|-----------------|
| TPQR 30KVA     | 770*400*1105    |
| TPQR 75-100KVA | 790*450*1285    |

**• Product Features**

- Full-digital control core with DSP+CPLD, three-level topology, and advanced PWM control strategy for comprehensive regulation of power quality at the line terminal.
- Modular design facilitates easy parallel connection of multiple modules, occupies a small footprint, and allows convenient maintenance.
- Independent air duct and separate board compartment structure ensure reliable equipment operation.
- Real-time three-phase imbalance detection and active power transfer between phases prevent single-phase overvoltage and grid disconnection.
- Automatic self-restart upon power recovery ensures continuous operation.
- Multiple functions for option, including reactive power compensation, harmonic filter, three-phase imbalance compensation, and precise terminal voltage regulation.
- Various communication interfaces, such as RS485 (with optional 4G/Wi-Fi support), enable easy integration of equipment operation data into monitoring systems.
- Comprehensive protection features, including overvoltage, undervoltage, overcurrent, short circuit, and phase loss protection, as well as system self-diagnostic functions.

**• Working Principle**



**• Technical Specifications**

| Nominal Voltage                      | 400V Series   |                |        |
|--------------------------------------|---|----------------|--------|
| <b>AC parameters</b>                 |   |                |        |
| Rated Capacity                       | 30kVA   | 75kVA          | 100kVA |
| Working Voltage Range                | 304~456V  |                |        |
| Frequency                            | 50Hz/60Hz±1.5Hz   |                |        |
| Frequency                            | 75A   | 100A           | 150A   |
| THDi                                 | ≤3%   |                |        |
| Power Factor                         | -1~+1   |                |        |
| <b>System Parameters</b>             |   |                |        |
| Maximum System Efficiency            | ≥97.5%  |                |        |
| Grid Structure                       | 3-Phase 3-Wire / 3-Phase 4-Wire                             |                |        |
| Cooling Method                       | Forced Air Cooling  |                |        |
| Noise                                | ≤65dB   |                |        |
| Ambient Temperature                  | -10°C to 50°C (Derating required above 40°C)                |                |        |
| Protection Class                     | IP54  |                |        |
| Altitude Without Derating            | ≤2000m  |                |        |
| Relative Humidity                    | 0 ~ 95%   |                |        |
| Cabinet Dimensions (W*D*H)           | 770*400*1105mm  | 790*450*1285mm |        |
| Voltage Unbalance After Compensation | ≤3%   |                |        |
| Reactive Power Compensation Rate     | ≥98%  |                |        |
| Reactive Power Control Accuracy      | ≤ 2.5% of rated capacity                                    |                |        |
| Line Voltage Regulation Range        | ≥15% (provided capacity is sufficient)                      |                |        |
| <b>Communication Modes</b>           |   |                |        |
| Communication Protocol               | ModBusTCP/IP  |                |        |
| Communication Interface              | 2-Channel RS485 Communication Interface (Supports 4G/Wi-Fi) |                |        |

## • Applications



### Integration of Renewable Energy into the Distribution Grid

To address issues such as three-phase voltage imbalance and overvoltage caused by the large-scale integration of distributed photovoltaic systems, hydropower, and other new energy sources into low-voltage lines.



### Distribution transformer station or industrial production

To address issues such as low voltage at the end of the line and three-phase current imbalance caused by long transmission lines in low-voltage distribution networks, as well as single-phase loads or drive-type loads at the terminal end.



### Traffic tunnel

To address issues such as low voltage at the end of the line and three-phase current imbalance caused by low grid input voltage, long power supply lines, and frequent load variations.

# AVC

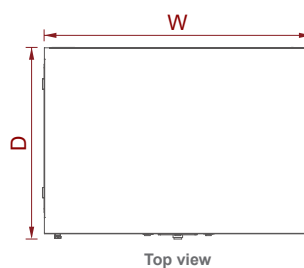
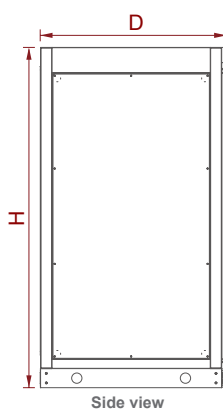
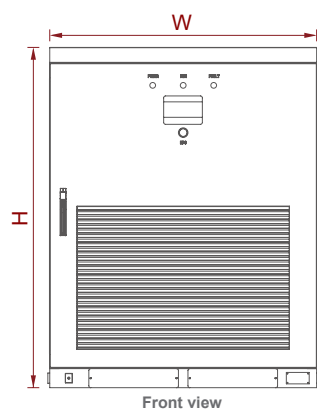
## Active Voltage Conditioner

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



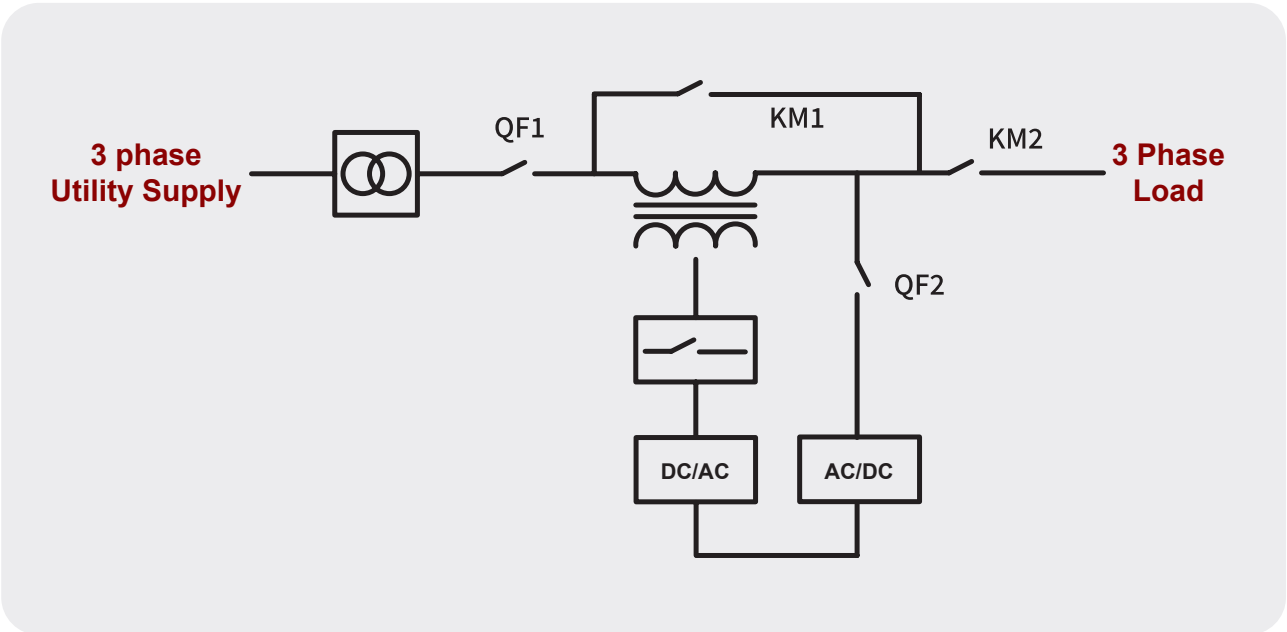
**Active Voltage Conditioner (AVC)** mainly consists of a rectifier, inverter, compensation transformer, monitoring system, and AC/DC power distribution. This comprehensive power quality management device, equipped with functions such as voltage fluctuation (-40%~+30%) control, reactive power compensation, harmonic filter, and three-phase imbalance compensation, improves the power quality of the grid while ensuring stable power supply to the load, thus preventing economic losses caused by voltage fluctuations.

### • Product Dimensions



| Model         | Size(W*D*H)<br>(mm) |
|---------------|---------------------|
| AVC-3-150KVA  | 850*800*1400        |
| AVC-3-250KVA  | 1400*975*1785       |
| AVC-3-500KVA  | 1400*975*1785       |
| AVC-3-1000KVA | 2800*975*1785       |

• Working Principle



• Applications

• New energy



• Traffic tunnels



• Industrial production



• Continuous process



• Pharmaceutical industry



• Medical industry



## • Technical Specifications

| Active Voltage Conditioner              |  |   |
|---|--|---|
| AC parameters                           |  |   |
| Rated capacity                          | 15/20/30KVA  | 45KVA-2000KVA   |
| Rated Voltage                           | AC220V   | AC380V  |
| Voltage range                           | -40%~+30%  | -40%~+30%   |
| Rated frequency                         | 50Hz/60Hz  | 50Hz/60Hz   |
| Grid structure                          | Single phase   | 3 phase 4 wire  |
| AC overload                             | 1.1 times  | 1.1 times   |
| Output voltage accuracy                 | ±1%  | ±1%   |
| Function Selection                      | Voltage compensation + (reactive power compensation, harmonic compensation, reactive power compensation + harmonic compensation) | Voltage compensation + (reactive power compensation, harmonic compensation, three-phase imbalance compensation, reactive power compensation + harmonic compensation, reactive power compensation + three-phase imbalance compensation, reactive power compensation + three-phase imbalance + harmonic compensation) |
| Compensation voltage range              | AC 220±20% (-40%~+30% can be customized)   | AC 380±20% (-40%~+30% can be customized)  |
| Transformer ratio                       | 5:1  | 5:1   |
| Harmonic compensation rate              | 3rd-13th order comprehensive harmonic compensation ≥95%  | 3rd-13th order comprehensive harmonic compensation ≥95%   |
| Reactive Power Compensation Rate        | Reactive power compensation ≥ 98%  | Reactive power compensation ≥ 98%   |
| Three-phase imbalance compensation rate | /  | Three-phase imbalance compensation ≥ 95%  |
| Total current harmonic distortion rate  | ≤3%  | ≤3%   |
| Output voltage harmonic distortion rate | < 1.5%   | < 1.5%  |
| Compensation response time              | < 20ms   | < 20ms  |
| Transformer parameters                  |  |   |
| Rated capacity                          | 6KVA   | 12KVA~400KVA  |
| Type                                    | Dry type, the magnetic core is made of laminated silicon steel sheets, and the frame is grounded.                                | Dry type, the magnetic core is made of laminated silicon steel sheets, and the frame is grounded.   |
| Overload                                | 1.1x Extended Operation  | 1.1 times longer running time   |
| Insulation                              | Insulation class H   | Insulation class H  |
| Transformation ratio                    | 220:44   | 220:44  |
| Design temperature                      | Temperature rise ≤90K  | Temperature rise ≤90K   |
| Implementation standards                | IEC 726  | IEC 726   |
| System parameters                       |  |   |
| Altitude                                | For distances less than 2000m and above 2000m, use the equipment with reduced rating according to GB/T3859.2.                    | For distances less than 2000m and above 2000m, use the equipment with reduced rating according to GB/T3859.2.   |
| Ambient temperature                     | -10 ~ +50°C (derating above 40°C )   | -10 ~ +50°C (derating above 40°C )  |
| Relative Humidity                       | ≤90%, no condensation on the surface at the lowest monthly temperature of 25°C   | ≤90%, no condensation on the surface at the lowest monthly temperature of 25°C  |
| Pollution Level                         | Below level III  | Below level III   |
| Noise                                   | ≤70dB  | ≤70dB   |
| Protection level                        | IP20/IP54  | IP20/IP54   |

# CVCF

## IGBT Type Single Phase AVR

Voltage and Frequency Stabilisers



### Input voltage range:

◆ 85-270VAC, 1Phase, 2Wire, +Earth

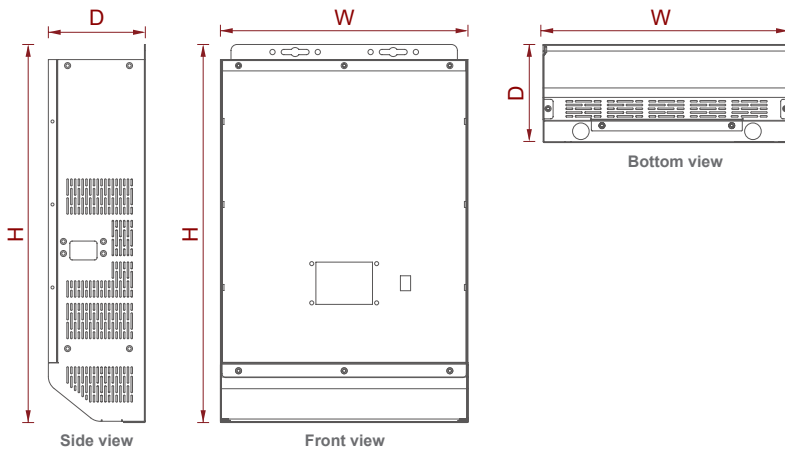
### Input frequency range:

◆ 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

### • Product Dimensions



| Model      | Size(W*D*H)(mm) |
|------------|-----------------|
| CVCF 5KVA  | 501*328*128.5   |
| CVCF 10KVA | 580*358*128.5   |

## • Technical Parameter

| Parameters           |                             | 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)<br>>150% cut off immediately |                  |
| Display/Indication   | Display Mode                | LCD/LED  |                  |
|                      | Communication               | RS485  |                  |
| Physical Parameter   | Efficiency                  | >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             |

# Global Branches & Agents

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Email: kinmopw.ph@gmail.com

Main Office:1732 Jose Abad Santos St., Tondo Manila, Philippines

BGC Office:Unit 3C-1 Seibu Tower, 6th Ave., 24th St., BGC Taguig City

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## **SMone Energy sp. z o.o.**

**Main product : Power Quality**

Ul.Sikorskiego 72 43-100 Tychy, Poland

Contact person: Szymon Lubecki

Telephone:+48 538 328 899office@smone.pl

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## **Electro Zimbabwe**

**Main product : Power Quality**

Website: www.electro.co.zw

Email: cecil@electro.co.zw

Cellphone: +263 774 325 839

Telephone:+263 8677007530/(+263 24)2481120/952

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Telephone:+60102091616

Add: No.1 Jalan Usahawan 2/1, Elmina Bu Siness Park, 47000 Sungai Buloh, Selangor

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## **FRA.TE.L.S.R.L(Italy)**

**Main product : C&I Energy Storage Solutions**

Add: CIS TORRE ISOLA4 IP INT 410 SNC CAP, 80035 Nola NA, Italy

Contact person: Francesco Casillo

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**Energy Storage System  
&  
Power Quality System Provider**

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PQ Website: [www.yiyelec.com](http://www.yiyelec.com)

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Province, China