

**YIY**

# AVR

**VOLTAGE REGULATOR**  
**SERVO TYPE / RELAY TYPE /**  
**IGBT TYPE / OTHERS**

*Start Digital Power Supply*



# 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.: 2022ZQ21193R0S

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.gpc.org.cn](http://www.gpc.org.cn) or search the CNCA website: [www.cnca.gov.cn](http://www.cnca.gov.cn)

**ZHEJIANG QUANPIN CERTIFICATION CO.,LTD.**  
Room 403, Floor 4, Building 1, No.74, Poyan Road, Poyan Street, Binjiang District, Hangzhou City, Zhejiang Province, China 310053 WEB: <http://www.gpc.org.cn>

ISO45001



**OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE**

Certificate No.: 2022ZS20467R0S

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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ISO14001



**ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE**

Certificate No.: 2022ZE20495R0S

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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## Certificate of Conformity

**Certification No.:** KESJ180209201405  
**Applicant:** LISHU YIYEN TECHNOLOGY COMPANY LIMITED  
**Address:** No.77,Xiang Long Road,Lian Du Zone,Lishu City,Zhejiang Province, China.  
**Manufacturer:** LISHU YIYEN TECHNOLOGY COMPANY LIMITED  
**Address:** No.77,Xiang Long Road,Lian Du Zone,Lishu City,Zhejiang Province, China.  
**Certification:** CE-LVD  
**Product Description:** Three phase automatic compensation voltage regulator  
**Model:** SWP-30kVA, SWP-50kVA, SWP-60kVA, SWP-80kVA, SWP-100kVA, SWP-120kVA, SWP-150kVA, SWP-180kVA, SWP-200kVA, SWP-220kVA, SWP-250kVA, SWP-300kVA, SWP-320kVA, SWP-350kVA, SWP-400kVA, SWP-500kVA, SWP-600kVA, SWP-600kVA, SWP-1000kVA, SWP-1200kVA, SWP-1500kVA, SWP-1600kVA, SWP-2000kVA, SWP-2500kVA  
**Trademark:** N/A  
**Test Standards:** EN 62384-1:2009+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.



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 Room 405, Floor 4th, Building C, Huihai Technology Industrial Park, Huihai Street, Hai'an District, Shaoxing City, Zhejiang Province, China  
 Tel: +86-575-2309464 Fax: +86-575-2309462 Email: info@kes-test.com

## Certificate of Conformity

**NO.: EN18031888**  
 The following product has been tested by us with the listed standards and found in conformity with the essential 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, Guangshao Industrial Zone, Queshan Road, Longshan Town, Baoan District, Shenzhen City, 518109, China  
**Trade Mark:** YIY  
**EUT:** Automatic Voltage Regulator  
**Model:** 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.



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## Certificate of Conformity

**NO.: EN18031898**  
 The following product has been tested by us with the listed standards and found in conformity with the essential 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  
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**Trade Mark:** YIY  
**EUT:** Automatic Voltage Regulator  
**Model:** 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.



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**Trade Mark:** YIY  
**EUT:** Automatic Voltage Regulator  
**Model:** 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

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**Manufacturer:** Shenzhen Yiyuan Technology Co., Ltd  
**Address:** 4th Floor, Building A, Guangshao Industrial Zone, Queshan Road, Longshan Town, Baoan District, Shenzhen City, 518109, China  
**Trade Mark:** YIY  
**EUT:** Automatic Voltage Regulator  
**Model:** 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

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**Trade Mark:** YIY  
**EUT:** Automatic Voltage Regulator  
**Model:** 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

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**Manufacturer:** Shenzhen Yiyuan Technology Co., Ltd  
**Address:** 4th Floor, Building A, Guangshao Industrial Zone, Queshan Road, Longshan Town, Baoan District, Shenzhen City, 518109, China  
**Trade Mark:** YIY  
**EUT:** Automatic Voltage Regulator  
**Model:** 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  
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**Address:** 4th Floor, Building A, Guangshao Industrial Zone, Queshan Road, Longshan Town, Baoan District, Shenzhen City, 518109, China  
**Trade Mark:** YIY  
**EUT:** Automatic Voltage Regulator  
**Model:** 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

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## 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.:	ES170210286
Tested by (in signature):	Agar Gan
Approved by (in signature):	William Guo
Date of issue:	May 25, 2017
Total number of pages:	10 pages
Testing Laboratory:	EMTEK (SHENZHEN) CO., LTD
Address:	Building 89, Huihai Industry Zone, Nanshan 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 specifications:	EN 61558-2-12:2011
Standard:	in cooperation with EN 61568-1:2005+A1:2009
Test procedure:	Compliance with EN 61558-2-12:2011 in cooperation with EN 61568-1:2005+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, Guangshao Industrial Zone, Queshan Road, Longshan 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 label.

# PRODUCT CATALOGUE

## *Servo Motor Type (220V/380V)*

<b>PRO</b> Single Phase	01
<b>PWR</b> Single Phase	05
<b>TSS</b> Wall-mounted Single Phase	07
<b>TWS</b> Wall-mounted Single Phase	10
<b>PRO-3</b> Three Phase	13
<b>PWR-3</b> Three Phase	16
<b>SBW/SBW-F</b> Three Phase (Industrial)	19
<b>SBW-F IP54</b> Independent Phase Control	23

## *Relay Type*

<b>AVR</b> Single Phase	26
<b>TRS</b> Wall-Mounted Single Phase	30
<b>SWR</b> Wall-Mounted Single Phase	33
<b>PR</b> Portable Single Phase	36

## ***IGBT Type***

<b><i>CVCF</i></b> Voltage and Frequency Stabilisers	38
<b><i>AVC</i></b> Active Voltage Conditioner	40

## ***Servo Motor Type (120V/208V)***

<b><i>PWR-LV</i></b> Single Phase	44
<b><i>TWS-LV</i></b> Wall-mounted Single Phase	46
<b><i>PWR-2</i></b> Dual Phase	49
<b><i>PWR-3-LV</i></b> Three Phase	51
<b><i>SBW-F IP54</i></b> Independent Phase Control	54

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## ***Other Types***

<b><i>ST</i></b> Step Up & Down Transformer	56
<b><i>TDGC2/TSGC2</i></b> Manual Voltage Regulator	58

# PRO

## Single Phase Servo Motor Type

500VA-30000VA



### Features:

- ◆ MCU control
- ◆ Overload protection(on PCB) $\geq 120\%$
- ◆ Over voltage & Under voltage protection
- ◆ Dual LED display/ Multi display
- ◆ More accurate output precision $\leq 2\%$
- ◆ Themistor,upgraded function to offer more accurate over-heat protection to the device.
- ◆ If fan is not working, the device will cut off the output to avoid over-heat.

**• Technical Parameter**

Specification		500VA	1000VA	1500VA	2000VA	3000VA	5000VA	
Input	Phase	Single phase						
	<b>Voltage</b>	<b>AC 150V-250V / 100V-250V</b>						
	Frequency	50Hz/60Hz						
Output	Voltage	AC 220V ±3% / customized						
	Capacity	400W	800W	1200W	1600W	2400W	4000W	
	Frequency	50Hz/60Hz						
Protection	Low voltage	184V±4V						
	Over voltage	246V±4V						
	Time Delay	5s / 255s optional						
	Overload/ short circuit	Fuse/MCB						
Packaging	Pcs per Carton	4			2			
	Shipping Wt.(kg)	14.6	18.2	22.8	18.9	23.4	28	
	Package dimensions (mm)	430*250*330	500*240*380		610*257*280	610*365*275	610*425*275	
Efficiency	AC-AC	98%						
Acoustic	Noise level	≤50dB						
Environment	Temperature	-5°C to 40°C						
	Humidity	20% to 90%						

Specification		8000VA	10KVA	12KVA	10KVA (Tower)	15KVA (Tower)	20KVA (Tower)	30KVA (Tower)	
Input	Phase	Single phase							
	<b>Voltage</b>	<b>AC 150V-250V / 100V-250V</b>				<b>AC 176V-250V / 100V-250V</b>			
	Frequency	50Hz/60Hz							
Output	Voltage	AC 220V ±3% / customized							
	Capacity	6400W	8KW	9.6KW	8KW	12KW	16KW	24KW	
	Frequency	50Hz/60Hz							
Protection	Low voltage	184V±4V							
	Over voltage	246V±4V							
	Time Delay	5s / 255s optional							
	Overload/ short circuit	Fuse/MCB							
Packaging	Pcs per Carton	1							
	Shipping Wt.(kg)	23.7	25	27	34.5	54.5	79.2	100	
	Package dimensions (mm)	430*250*330			460*360*290	446*345*630	560*380*775	660*380*775	
Efficiency	AC-AC	98%							
Acoustic	Noise level	≤50dB							
Environment	Temperature	-5°C to 40°C							
	Humidity	20% to 90%							



## • Product Appearance

### PRO C



500VA



1000VA/1500VA



2000VA



3000VA



5000VA



8000VA/10000VA/12000VA

### PRO-E



500VA



1000VA/1500VA



2000VA



3000VA



5000VA



8000VA/10000VA/12000VA



## • Product Appearance

### PRO-E



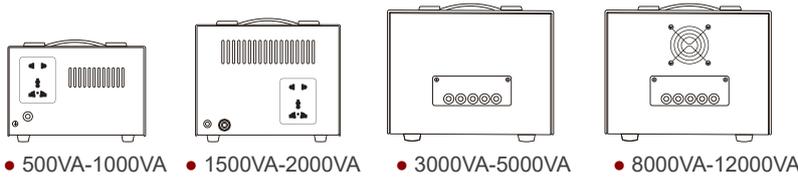
10000VA

15000VA

20000VA

30000VA

#### ◆ Rear Panel



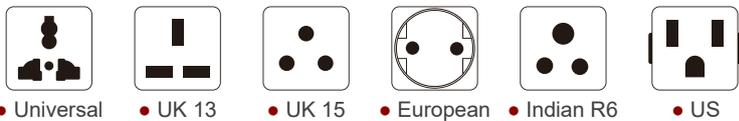
• 500VA-1000VA • 1500VA-2000VA • 3000VA-5000VA • 8000VA-12000VA

#### ◆ Display Options



• A • B • C • D • Dual LED display 1 • LED display • Analog display

#### ◆ Socket Options



• Universal • UK 13 • UK 15 • European • Indian R6 • US

\* More options, please turn to page 42

# PWR

## Single Phase Servo Motor Type

5KVA-100KVA



### Features:

- ◆ Low input voltage
- ◆ More accurate output precision  $\leq 2\%$
- ◆ Over voltage & Under voltage protection
- ◆ Themistor, upgraded function to offer more accurate over-heat protection to the device.
- ◆ If fan is not working, the device will cut off the output to avoid over-heat.
- ◆ Overload protection (on PCB)  $\geq 120\%$
- ◆ MCU control
- ◆ Multi display
- ◆ Surge protection

## • Technical Parameter

Specification		5KVA	10KVA	15KVA	20KVA	30KVA	40KVA	50KVA	75KVA	100KVA
Input	Phase	Single Phase								
	Voltage	AC 160V-280V		AC 165V-275V(±25%)/154V-286V(±30%)						
	Frequency	50Hz/60Hz								
Output	Voltage	AC 220V±3%/230V±3%								
	Capacity	4KW	8KW	12KW	16KW	24KW	32KW	40KW	60KW	80KW
	Frequency	50Hz/60Hz								
Protection	Low Voltage	184±4V/194±4V								
	Over Voltage	246V±4V/256V±4V								
	Time Delay	5s / 255s optional								
	Overload	MCU (cutting off output for 3 seconds when exceeding rated power by 120%)								
	Short Circuit	Circuit Breaker								
	Other	Surge protection								
Efficiency	AC-AC	98%								
Acoustic	Noise level	≤50dB								
Environment	Temperature	-5 C to 40 C								
	Humidity	20% to 90%								

## • Product Appearance

### PWR



### ◆ Display Options



# TSS

## Wall-mounted Single Phase Servo Motor Type

500VA-12000VA



### Features:

- ◆ Over voltage & Under voltage protection
- ◆ Reaction time( voltage stabilization time)  $\leq 60\text{ms}$
- ◆ High precision:  $220\text{VAC} \pm 2\%$
- ◆ Over temperature protection
- ◆ Short delay (5s) & Long delay (255s)

## • Technical Parameter

Specification		500VA	1000VA	1500VA	2000VA	3000VA
Input	Phase	Single phase				
	<b>Voltage</b>	<b>AC 100V-260V</b>				
	Frequency	50Hz / 60Hz				
Output	Voltage	AC 220V ±3%				
	Capacity	400W	800W	1200W	1600W	2400W
	Frequency	50Hz / 60Hz				
Protection	Low voltage	184V±4V				
	Over voltage	246V±4V				
	Time Delay	5s / 255s Selectable				
	Overload/ short circuit	Fuse / MCB				
Packaging	Pcs per Carton	4			2	
	Shipping Wt.(kg)	14	18	21.5	17	21
	Package dimensions (mm)	505*415*300		430*320*270		398*315*364
Efficiency	AC-AC	98%				
Acoustic	Noise level	≤50dB				
Environment	Temperature	-5°C to 40°C				
	Humidity	20% to 90%				

Specification		5000VA	8000VA	10KVA	12KVA
Input	Phase	Single phase			
	<b>Voltage</b>	<b>AC 100V-260V</b>			
	Frequency	50Hz / 60Hz			
Output	Voltage	AC 220V ±3%			
	Capacity	4000W	6400W	8KW	9.6KW
	Frequency	50Hz / 60Hz			
Protection	Low voltage	184V±4V			
	Over voltage	246V±4V			
	Time Delay	5s / 255s Selectable			
	Overload/ short circuit	Fuse / MCB			
Packaging	Pcs per Carton	2		1	
	Shipping Wt.(kg)	24	19	22.1	25.1
	Package dimensions (mm)	398*315*364	460*358*225		
Efficiency	AC-AC	98%			
Acoustic	Noise level	≤50dB			
Environment	Temperature	-5°C to 40°C			
	Humidity	20% to 90%			



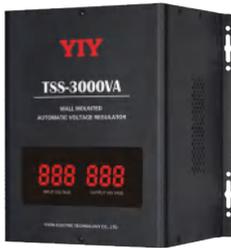
## • Product Appearance



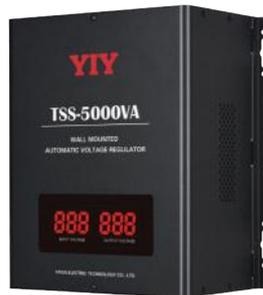
500VA/1000VA



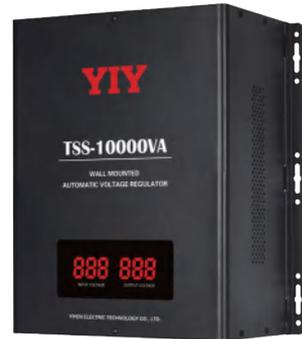
1500VA/1000VA



3000VA

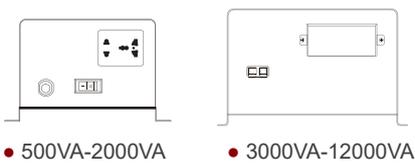


5000VA



8000VA/10000VA/12000VA

### ◆ Bottom Panel



• 500VA-2000VA

• 3000VA-12000VA

### ◆ Display Options



• A

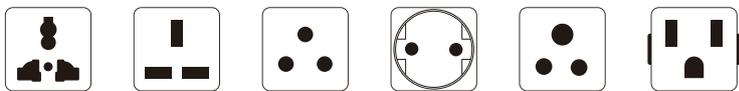
• B

• C

• D

• Dual LED display • LED display

### ◆ Socket Options



• Universal

• UK 13

• UK 15

• European

• Indian R6

• US

\* More options, please turn to page 38

# TWS

## Wall-mounted Single Phase Servo Motor Type

3KVA-30KVA



### Features:

- ◆ Ultra-low input voltage
- ◆ Over voltage & Under voltage protection
- ◆ Reaction time( voltage stabilization time)  $\leq 2s$
- ◆ High precision:  $220VAC \pm 3\%$
- ◆ Over temperature protection
- ◆ Short delay (5s) & Long delay (255s)

## • Technical Parameter

Specification		3000VA	5000VA	10KVA	15KVA	20KVA	30KVA
Input	Phase	Single phase					
	<b>Voltage</b>	<b>AC 80V-260V</b>					
	Frequency	50Hz/60Hz					
Output	Voltage	AC 220V±3%/230V±3%					
	Capacity	2400W	4000W	8KW	12KW	16KW	24KW
	Frequency	50Hz/60Hz					
Protection	Low voltage	184±4V/194±4V					
	Over voltage	246V±4V/256V±4V					
	Time delay	5s (255s optional)					
	Overload	MCU (cutting off output for 3 seconds when exceeding rated power by 120%)					
	Short circuit	Circuit Breaker					
	Other	Surgee protection(optional)					
Product	Dimension	/	340*460*160	340*510*160	540*725*240	540*725*240	540*725*240
Efficiency	AC-AC	98%					
Acoustic	Noise level	≤50dB					
Environment	Temperature	-5℃ to 40℃					
	Humidity	20% to 90%					

• Product Appearance

## TWS



TWS-5K



TWS-10K



TWS-15K



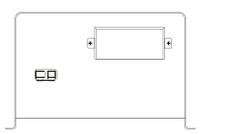
TWS-20K



TWS-30K

◆ Bottom Panel

- 5000VA-30000VA



◆ Display Options



- A
- B
- C
- D

# PRO-3

## Three Phase Servo Motor Type

1.5KVA-100KVA



### Features:

- ◆ MCU Control
- ◆ Motor protection (Unique function)
- ◆ More accurate output precision  $\leq 2\%$
- ◆ Industrial strength components
- ◆ If fan fails, the device will cut off the output to avoid over-heat
- ◆ Three phase compensation servo motor technology
- ◆ 100% unbalanced loading capability
- ◆ Overload protection (on PCB)  $\geq 120\%$
- ◆ Colorful LED display


**• Technical Parameter**

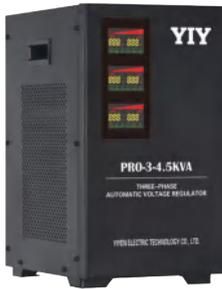
Specification		1500VA	3000VA	4500VA	6000VA	9000VA	15KVA
Input	Phase	3-phase 4-wire(Can be customized 3-phase 3-wire)					
	<b>Voltage</b>	<b>278V-433V</b>					
	Frequency	50Hz/60Hz					
Output	Voltage	AC 380V ±3%					
	Capacity	1200W	2400W	3600W	4800W	7200W	12KW
	Frequency	50Hz/60Hz					
Protection	Low voltage	318V±7V					
	Over voltage	426V±7V					
	Time Delay	Default 5s					
	Overload/ short circuit	MCB/MCCB/MCU					
Packaging	Pcs per Carton	1					
	Shipping Wt.(kg)	/	/	/	/	/	/
	Package dimensions (mm)	230*330*418			280*380*645		280*380*690
Efficiency	AC-AC	98%					
Acoustic	Noise level	≤50dB					
Environment	Temperature	-5°C to 40°C					
	Humidity	20% to 90%					

Specification		20KVA	30KVA	45KVA	50KVA	60KVA	75KVA	100KVA
Input	Phase	3-phase 4-wire(Can be customized 3-phase 3-wire)						
	<b>Voltage</b>	<b>278V-433V</b>			<b>304V-456V</b>			
	Frequency	50Hz/60Hz						
Output	Voltage	AC 380V ±3%						
	Capacity	16KW	24KW	36KW	40KW	48KW	60KW	80KW
	Frequency	50Hz/60Hz						
Protection	Low voltage	318V±7V						
	Over voltage	426V±7V						
	Time Delay	Default 5s						
	Overload/ short circuit	MCB/MCCB/MCU						
Packaging	Pcs per Carton	1						
	Shipping Wt.(kg)	/	/	/	/	/	/	/
	Package dimensions (mm)	325*420*667			430*755*1020			800*740*1030
Efficiency	AC-AC	98%						
Acoustic	Noise level	≤50dB						
Environment	Temperature	-5°C to 40°C						
	Humidity	20% to 90%						

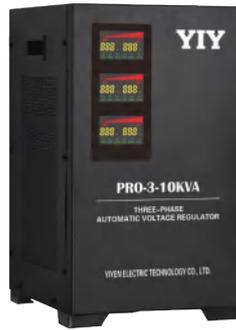


### • Product Appearance

#### PRO-3



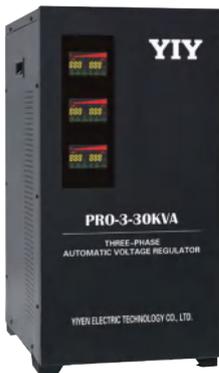
1.5KVA/3KVA/4KVA



6KVA/9KVA



15KVA



20KVA/30KVA



45KVA/50KVA/60KVA/75KVA



100KVA

#### ◆ Display Options



• LED display

• D

# PWR-3

## Three Phase Servo Motor Type

15KVA-300KVA



### Features:

- ◆ More accurate output precision  $\leq 2\%$
- ◆ MCU Control
- ◆ Surge protection
- ◆ Industrial strength components
- ◆ If fan fails, the device will cut off the output to avoid over-heat
- ◆ 100% unbalanced loading capability
- ◆ Ultra-low input voltage
- ◆ Overload protection (on PCB)  $\geq 120\%$
- ◆ Multi display

## • Technical Parameter

Specification		15KVA	30KVA	45KVA	60KVA	75KVA	100KVA
Input	Phase	3-phase 4-wire					
	<b>Voltage</b>	<b>AC 278V-485V</b>		<b>AC 285V-475V(±25%)/266V-494V(±30%)</b>			
	Frequency	50Hz/60Hz					
Output	Voltage	AC 380V±3%/400V±3%					
	Capacity	12KW	24KW	36KW	48KW	60KW	80KW
	Frequency	50Hz/60Hz					
Protection	Low voltage	318±7V/335±7V					
	Over voltage	425V±7V/442V±7V					
	Time delay	5s					
	Overload	MCU (cutting off output for 3 seconds when exceeding rated power by 120%)					
	Short circuit	Circuit Breaker					
	Other	surge, phase-sequence, phase loss					
Efficiency	AC-AC	98%					
Acoustic	Noise level	≤50dB					
Environment	Temperature	-5°C to 40°C					
	Humidity	20% to 90%					

Specification		120KVA	150KVA	200KVA	250KVA	300KVA
Input	Phase	3-phase 4-wire				
	<b>Voltage</b>	<b>AC 285V-475V(±25%)/266V-494V(±30%)</b>				
	Frequency	50Hz/60Hz				
Output	Voltage	AC 380V±3%/400V±3%				
	Capacity	96KW	120KW	160KW	200KW	240KW
	Frequency	50Hz/60Hz				
Protection	Low voltage	318±7V/335±7V				
	Over voltage	425V±7V/442V±7V				
	Time delay	5s				
	Overload	MCU (cutting off output for 3 seconds when exceeding rated power by 120%)				
	Short circuit	Circuit Breaker				
	Other	surge, phase-sequence, phase loss				
Efficiency	AC-AC	98%				
Acoustic	Noise level	≤50dB				
Environment	Temperature	-5°C to 40°C				
	Humidity	20% to 90%				

• Product Appearance

**PWR-3**



PWR-3-30KVA



PWR-3-45KVA



PWR-3-60KVA



PWR-3-100KVA



PWR-3-150KVA

◆ Display



# SBW/SBW-F

## Three Phase Servo Motor Automatic Voltage Regulator

50KVA-3000KVA



**SBW/SBW-F** Series full automatic three-phase electric voltage regulators with compensator (hereinafter referred to as the voltage regulator) are designed with the advanced European technology and can be customized on various situations of different countries and areas. When the voltage fluctuation happens with the fluctuation of external power grid voltage or load variation, they can keep the stable output voltage automatically. Compared with other types of voltage regulators, SBW series has the advantages, such as the large capacity, high efficiency, no waveform distortion, voltage adjustment stability.

It is applicable for large-sized electromechanical equipment, metal processing equipment, production lines, construction engineering equipment, elevators, medical equipment, light-textile equipment, air conditioners, broadcasting TV, household appliances and lighting in various fields like industry, agriculture, traffic, post & telecommunication, military, railway, scientific research culture, etc.



## • Technical Parameter

Specification		50KVA	60KVA	80KVA	100KVA	150KVA	200KVA	250KVA	300KVA	350KVA
Input	Phase	3-phase 4-wire								
	<b>Voltage</b>	<b>AC 304V-456V</b>								
	Frequency	50Hz/60Hz								
Output	Voltage	AC 380V ±3%								
	Capacity	40KW	48KW	64KW	80KW	120KW	160KW	200KW	240KW	280KW
	Frequency	50Hz/60Hz								
Protection	Low voltage	318V ±7V								
	Over voltage	426V±7V								
	Time Delay	3-6s/3-6min optional								
	Overload / short circuit	MCB/MCCB								
Packaging	Pcs per Carton	1								
	Net Wt.(kg)	/	210	/	260	/	430	/	/	/
	Shipping Wt.(kg)	/	220	/	280	/	450	/	/	/
	Package dimensions (mm)	600*750*1330		620*850*1440		750*1000*1750		900*1100*1790		1100*1000*1790
Efficiency	AC-AC	98%								
Acoustic	Noise level	≤50dB								
Environment	Temperature	-15°C to +45°C								
	Humidity	20% to 90%								

Specification		400KVA	500KVA	600KVA	800KVA	1000KVA	1200KVA	1500KVA	3000KVA
Input	Phase	3-phase 4-wire							
	<b>Voltage</b>	<b>AC 304V-456V</b>							
	Frequency	50Hz/60Hz							
Output	Voltage	AC 380V ±3%							
	Capacity	320KW	400KW	480KW	640KW	800KW	960KW	1200KW	2400KW
	Frequency	50Hz/60Hz							
Protection	Low voltage	318V ±7V							
	Over voltage	426V±7V							
	Time delay	3-6s/3-6min optional							
	Overload/ short circuit	MCB/MCCB							
Packaging	Pcs per Carton	1							
	Net Wt.(kg)	740	1050	1090	1835	2335	/	/	/
	Shipping Wt.(kg)	765	1075	1115	1860	2360	/	/	/
	Package dimensions (mm)	1100*1000*1790	1400*1100*2060		(1680*1300*1800)*2			(1680*1300*1800)*3	(1680*1300*1800)*6
Efficiency	AC-AC	98%							
Acoustic	Noise level	≤50dB							
Environment	Temperature	-15°C to +45°C							
	Humidity	20% to 90%							

**• Product Appearance****SBW/SBW-F**

50KVA~300KVA



350KVA~600KVA



800KVA~3000VA

\*800KVA/1000KVA/1200KVA:Cabinet\*2. 1500KVA:Cabinet\*3 3000KVA:Cabinet\*6

• Internal Structure



\*Different specifications have different layouts

# SBW-F IP54

## Three Phase Servo Motor Automatic Voltage Regulator

150KVA-3000KVA



The SBW-F Series Three-Phase Automatic Compensation Voltage Stabilizer, designed with advanced European technology, is customizable for different regional needs. It ensures stable output voltage during external grid fluctuations or load changes.

Main advantages include high capacity, efficiency, no waveform distortion, and stable voltage regulation.

SBW-F series with Independent Phase Control: best for unbalanced loads, this model independently regulates each phase, providing precise voltage stability in complex power grid environments.

The SBW-F series stabilizer is widely applied in the field of industry, agriculture, transportation, telecommunications etc, ensuring efficient equipment operation in various scenarios.

**• Technical Parameter**

Specification		150KVA	200KVA	250KVA	300KVA	400KVA
Input	Phase	3-phase 4-wire				
	<b>Voltage</b>	<b>AC 304V-456V(±20%)/285V-475V(±25%)/266V-494V(±30%)</b>				
	Frequency	50Hz/60Hz				
Output	Voltage	AC 380V±3%/400V±3%				
	Capacity	120KW	160KW	200KW	240KW	320KW
	Frequency	50Hz/60Hz				
Bypass	Current	400A	400A	630A	630A	800A
Protection	Low voltage	318±7V/335±7V				
	Over voltage	425V±7V/442V±7V				
	Time delay	10 seconds				
	Overload	MCU(cutting off output for 60 seconds when exceeding rated power by 120%)				
	Short circuit	Circuit Breaker				
	Other	Surge, phase-sequence, phase loss				

Specification		500KVA	600KVA	1000KVA	1500KVA	2000KVA	3000KVA
Input	Phase	3-phase 4-wire					
	<b>Voltage</b>	<b>AC 304V-456V(±20%)/285V-475V(±25%)/266V-494V(±30%)</b>					
	Frequency	50Hz/60Hz					
Output	Voltage	AC 380V±3%/400V±3%					
	Capacity	400KW	480KW	800KW	1200KW	1600KW	2400KW
	Frequency	50Hz/60Hz					
Bypass	Current	1000A	1250A	2250A	3200A	4000A	6300A
Protection	Low voltage	318±7V/335±7V					
	Over voltage	425V±7V/442V±7V					
	Time delay	10 seconds					
	Overload	MCU (cutting off output for 60 seconds when exceeding rated power by 120%)					
	Short circuit	Circuit Breaker					
	Other	Surge, phase-sequence, phase loss					



• Product Appearance

### SBW-F IP54



150-300KVA



400KVA



1000KVA

# AVR

## Single Phase Relay Type

500VA-20000VA



### Features:

- ◆ MCU controlled PCB
- ◆ Short delay (5s) & Long delay (255s)
- ◆ Wide input voltage range
- ◆ Short circuit & Overload protection
- ◆ Over temperature protection
- ◆ High output precision up to  $\pm 8\%$

## • Technical Parameter

Specification		500VA	1000VA	1500VA	2000VA	3000VA
Input	Phase	Single phase				
	<b>Voltage</b>	<b>70V-270V/ 90V-270V/125V-270V/140V-260V</b>				
	Frequency	50Hz/60Hz				
Output	Response time	60ms				
	Voltage	AC 220V ±8%~10%				
	Capacity	400W	800W	1200W	1600W	2400W
	Frequency	50Hz/60Hz				
Protection	Low voltage	184V±4V				
	Over voltage	246V±4V				
	Time Delay	5s / 255s optional				
	Overload/ short circuit	Fuse/MCB+MCU				
Packaging	Pcs per Carton	8		4		2
	Shipping Wt.(kg)	19.5	25.8	14.6	16.6	17.6
	Package dimensions (mm)	550*285*350		370*330*403		565*390*305
Efficiency	AC-AC	95%				
Acoustic	Noise level	≤50dB				
Environment	Temperature	-5°C to 40°C				
	Humidity	20% to 90%				

Specification		5000VA	8000VA	10KVA	12KVA	15KVA (Tower)	20KVA (Tower)
Input	Phase	Single phase					
	<b>Voltage</b>	<b>70V-270V/ 90V-270V / 125V-270V/ 140V-260V</b>			<b>90V~270V/125V~270V/ 140V~260V</b>		
	Frequency	50Hz/60Hz					
Output	Response time	60ms					
	Voltage	AC 220V ±8%~10%					
	Capacity	4000W	6400W	8KW	9.6KW	12KW	16KW
	Frequency	50Hz/60Hz					
Protection	Low voltage	184V±4V					
	Over voltage	246V±4V					
	Time Delay	5s / 255s optional					
	Overload/ short circuit	Fuse/MCB+MCU					
Packaging	Pcs per Carton	2	1				
	Shipping Wt.(kg)	23.7	15.3	18.4	18.6	19.4	27.1
	Package dimensions (mm)	565*390*305	455*390*305			390*390*495	390*330*605
Efficiency	AC-AC	95%					
Acoustic	Noise level	≤50dB					
Environment	Temperature	-5°C to 40°C					
	Humidity	20% to 90%					

## • Product Appearance

### AVR B

\*Case color can be customized



500VA/1000VA



1500VA/2000VA



3000VA/5000VA



8000VA/10000VA/  
12000VA

### AVR D

\*Case color can be customized



500VA/1000VA



1500VA/2000VA



3000VA/5000VA



8000VA/10000VA/  
12000VA

### AVR E

\*Case color can be customized



500VA/1000VA



1500VA/2000VA



3000VA/5000VA



8000VA/10000VA/  
12000VA

### AVR F

\*Case color can be customized



500VA



1000VA/1500VA



3000VA/5000VA



8000VA/10000VA/  
12000VA

## • Product Appearance

### AVR-Cabinet



15000VA



20000VA

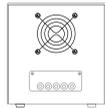
#### ◆ Rear Panel



• 500VA-2000VA



• 3000VA



• 5000VA-12000VA



• 5000VA-12000VA

#### ◆ Display Options



• A



• B



• C



• D



• Dual LED display 1



• Dual LED display 2



• LED display



• Analog display

#### ◆ Socket Options



• Universal



• UK 13



• UK 15



• European



• Indian R6



• US

\* More options, please turn to page 42

# TRS

## Wall Mounted Single Phase Relay Type

500VA-20000VA



### Features:

- ◆ MCU controlled circuit offering precision output
- ◆ High efficiency toroidal transformer
- ◆ Relay failure detection
- ◆ Individual switching power supply for 12Vdc
- ◆ Zero cross transfer technology integrated protection
- ◆ Ultra-low input voltage
- ◆ Over load Protection (MCU)
- ◆ Super fast response times  $\leq 60\text{ms}$

## • Technical Parameter

Specification		500VA	1000VA	1500VA	2000VA	3000VA
Input	Phase	Single phase				
	<b>Voltage</b>	<b>AC 70V-270V / 90V-270V / 125V-270V / 140V-260V</b>				
	Frequency	50Hz / 60Hz				
Output	Response	60ms				
	Voltage time	AC 220V ±8%~10%				
	Capacity	400W	800W	1200W	1600W	2400W
	Frequency	50Hz / 60Hz				
Protection	Low voltage	184V±4V				
	Over voltage	246V±4V				
	Time Delay	5s / 255s Selectable				
	Overload/ short circuit	Fuse / MCB+MCU				
Packaging	Pcs per Carton	10		4		2
	Shipping Wt.(kg)	19.5	25.8	14.6	16.6	17.6
	Package dimensions (mm)	440*335*275		415*310*270		425*315*365
Efficiency	AC-AC	95%				
Acoustic	Noise level	≤50dB				
Environment	Temperature	-5°C to 40°C				
	Humidity	20% to 90%				

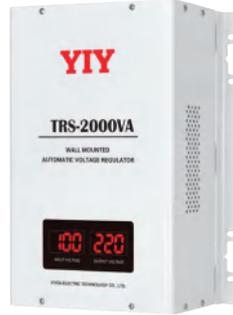
Specification		5000VA	8000VA	10KVA	12KVA	15KVA (cabinet)	20KVA (cabinet)
Input	Phase	Single phase					
	<b>Voltage</b>	<b>AC 70V-270V / 90V-270V / 125V-270V / 140V-260V</b>			<b>AC 90V~270V / 125V~270V / 140V~260V</b>		
	Frequency	50Hz / 60Hz					
Output	Response	60ms					
	Voltage time	AC 220V ±8%~10%(230V / 240V Optional)			AC 220V ±8%~10%(230V / 240V Optional)		
	Capacity	4000W	6400W	8KW	9.6KW	12KW	16KW
	Frequency	50Hz / 60Hz					
Protection	Low voltage	184V±4V					
	Over voltage	246V±4V					
	Time Delay	5s / 255s Selectable					
	Overload/ short circuit	Fuse / MCB+MCU					
Packaging	Pcs per Carton	2	1				
	Shipping Wt.(kg)	23.7	15.3	18.4	18.6	19.4	27.1
	Package dimensions (mm)	425*315*365			482*358*225		492*585*255
Efficiency	AC-AC	95%					
Acoustic	Noise level	≤50dB					
Environment	Temperature	-5°C to 40°C					
	Humidity	20% to 90%					

• Product Appearance

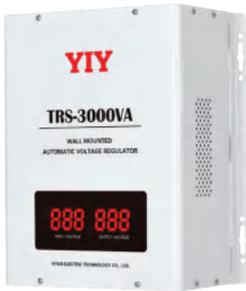
## TRS



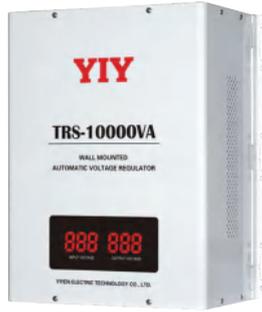
500VA/1000VA



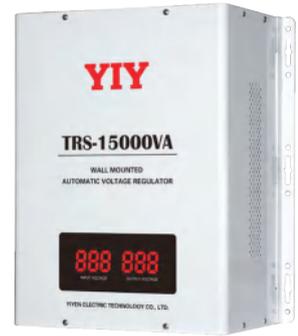
1500VA/2000VA



3000VA/5000VA

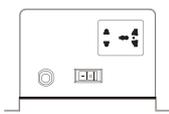


8000VA/10000VA/12000VA

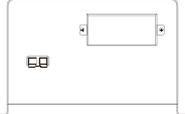


15000VA/20000VA

### ◆ Bottom Panel



• 500VA-2000VA



• 3000VA-12000VA

### ◆ Display Options



• A



• B



• C



• D



• Dual LED display



• LED display

### ◆ Socket Options



• Universal



• UK 13



• UK 15



• European



• Indian R6



• US

\* More options, please turn to page 38

# SWR

## Wall Mounted Single Phase Relay Type

500VA-20000VA



### Features:

- ◆ MCU controlled circuit offering precision output
- ◆ High efficiency toroidal transformer
- ◆ Relay failure detection
- ◆ Individual switching power supply for 12Vdc
- ◆ Zero cross transfer technology integrated protection
- ◆ Ultra-low input voltage
- ◆ Over load Protection (MCU)
- ◆ Super fast response time  $\leq 60\text{ms}$

**• Technical Parameter**

Specification		0.5KVA	1KVA	1.5KVA	2KVA	3KVA
Input	Phase	Single phase				
	<b>Voltage</b>	<b>AC 90V-270V</b>				
	Frequency	50Hz/60Hz				
Output	Voltage	AC 220V±10%/230V±10%				
	Capacity	400W	800W	1200W	1600W	2400W
	Frequency	50Hz/60Hz				
Protection	Low voltage	184±4V/194±4V				
	Over voltage	246V±4V/256V±4V				
	Time delay	5s (255s optional)				
	Overload	MCU (cutting off output for 3 seconds when exceeding rated power by 120%)				
	Short circuit	Circuit Breaker				
	Other	Surgee protection (optional)				
Efficiency	AC-AC	98%				
Acoustic	Noise level	≤50dB				
Environment	Temperature	-5 C to 40 C				
	Humidity	20% to 90%				

Specification		5KVA	8KVA	10KVA	12KVA	15KVA	20KVA
Input	Phase	Single phase					
	<b>Voltage</b>	<b>AC 45V-270V / 90V-270V</b>					
	Frequency	50Hz/60Hz					
Output	Voltage	VAC 220V±10%/230V±10%					
	Capacity	4000W	6400W	8KW	9.6KW	12KW	16KW
	Frequency	50Hz/60Hz					
Protection	Low voltage	184±4V/194±4V					
	Over voltage	246V±4V/256V±4V					
	Time delay	5s (255s optional)					
	Overload	MCU (cutting off output for 3 seconds when exceeding rated power by 120%)					
	Short circuit	Circuit Breaker					
	Other	Surgee protection (optional)					
Efficiency	AC-AC	98%					
Acoustic	Noise level	≤50dB					
Environment	Temperature	-5 C to 40 C					
	Humidity	20% to 90%					

## • Product Appearance

### SWR

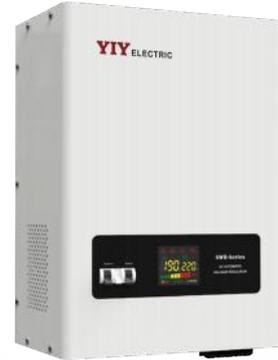
\*Case color can be customized



1500VA

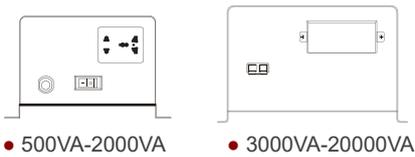


5000VA



15000VA/20000VA

#### ◆ Bottom Panel



• 500VA-2000VA

• 3000VA-20000VA

#### ◆ Display Options



• A

• B

• C

• D

• Dual LED display

# PR

## Portable Single Phase Relay Type

500VA-2000VA



### Features:

- ◆ CPU control
- ◆ Component damage protection
- ◆ Short circuit and overload protection
- ◆ Selectable delay time
- ◆ Over temperature protection
- ◆ LED indicators to show status of working, over voltage, and low voltage
- ◆ Automatic voltage regulation/Extension socket
- ◆ Protection against brownouts and over voltages
- ◆ Digital meter indicates line voltage and output voltage
- ◆ Surge, spike, and lightning protection (optional)

## • Technical Parameter

Specification		500VA	1000VA	1500VA	2000VA
Input	Phase	Single phase			
	<b>Voltage</b>	<b>AC 125V-270V / 140V-260V</b>			
	Frequency	50Hz/60Hz			
Output	Voltage	AC 220V ±10%			
	Capacity	250W	500W	750W	1000W
	Frequency	50Hz/60Hz			
Protection	Low voltage	184V±5V			
	Over voltage	246V±5V			
	Time Delay	5s / 255s			
	Overload/ short circuit	Fuse/MCB			
Packaging	Pcs per Carton	9			
	Net Wt.(kg)	1.3	1.6	1.75	1.8
	Shipping Wt.(kg)	11.9	14.3	15.5	16.8
	Package dimensions (mm)	528*320*360			
Efficiency	AC-AC	95%			
Acoustic	Noise level	≤50dB			
Environment	Temperature	-5°C to 40°C			
	Humidity	20% to 90%			

## • Product Appearance



**Euro Standard**



**Multifunctional Socket**



H:7.5CM



W:14.0CM

L:26.0CM



H:9.9CM



W:13.5CM

E:26.0CM

# 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	
	<b>Voltage Range</b>	<b>85-270VAC</b>	
	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

# AVC

## Active Voltage Conditioner

IGBT Type Automatic Voltage Regulator



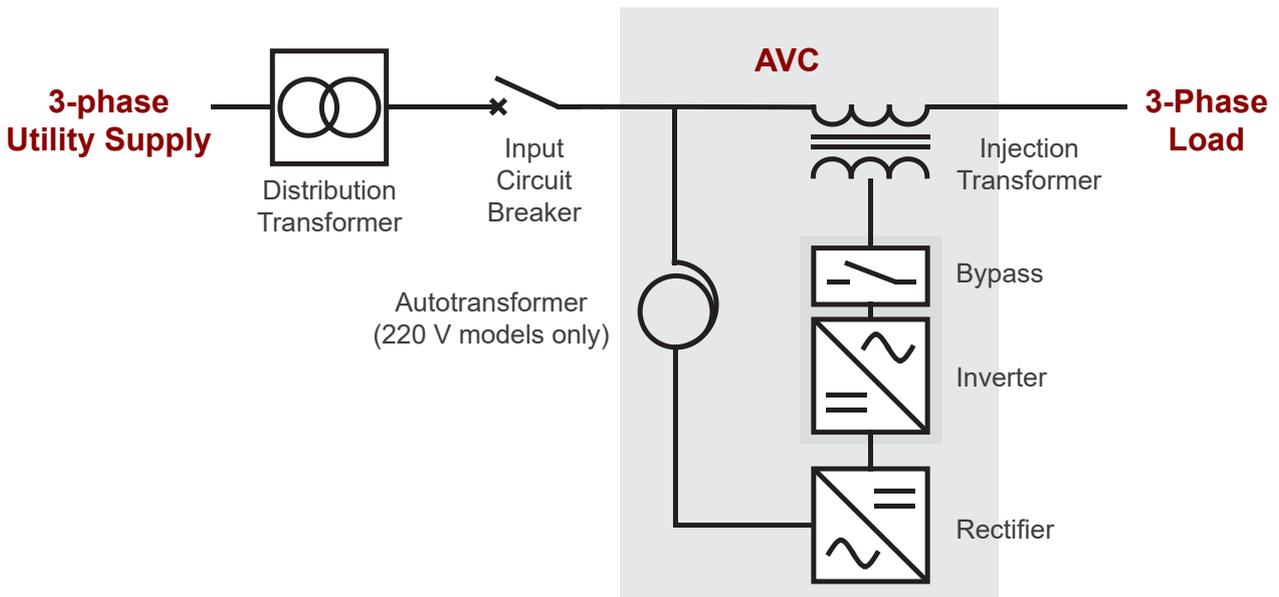
AVC is an inverter based system that protects sensitive industrial and commercial loads from voltage disturbances. Providing fast, accurate voltage sag and surge correction as well as continuous voltage regulation and load voltage compensation. AVC has been optimally designed to provide equipment immunity from power quality events on the supply network.

**• 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.

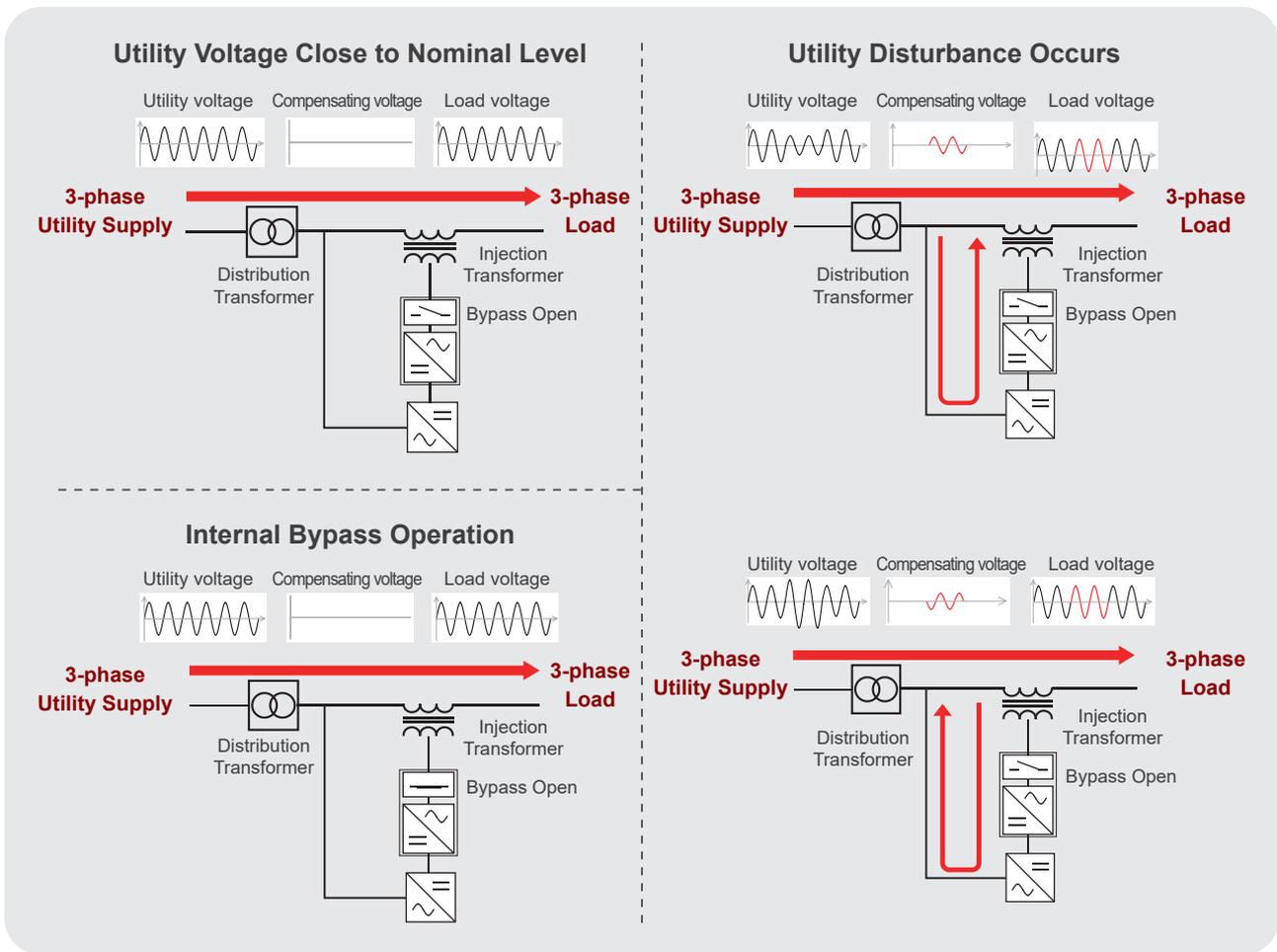
Furthermore, AVC contains a redundant internal bypass system that, in the event of overload or internal fault condition, ensures that the load is continued to be supplied from the utility.



**• Technical Parameter**

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)	
	<b>Range</b>	<b>220V-application range 176-264V</b> <b>380V-application range 304-456V</b>	
	Max Supply Voltage	130%	
	Frequency	50Hz/60Hz ±5Hz	
	Outage-Control Ride Through	10ms	
Output	Harmonics	THDv<3%	
	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	
Overload Protection	Bypass	Manual bypass, Automatic bypass	
	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	
Injection Transformer	Equivalent Series Impedance	Bypass < 2.5% typical	
	Transformer Type	Dry	
	Insulation	IEC 60085 Thermal class 200	
	Frequency	50Hz / 60Hz	
Protection	Vector Group	Diii (delta + 3 independent windings)	
	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



- Automotive



- Medical



# PWR-LV

## Single Phase Servo Motor Type

5KVA-100KVA



### Features:

- ◆ Low input voltage
- ◆ More accurate output precision  $\leq 2\%$
- ◆ Over voltage & Under voltage protection
- ◆ Themistor, upgraded function to offer more accurate over-heat protection to the device.
- ◆ If fan is not working, the device will cut off the output to avoid over-heat.
- ◆ Overload protection (on PCB)  $\geq 120\%$
- ◆ MCU control
- ◆ Multi display
- ◆ Surge protection



### • Technical Parameter

Specification		5KVA	10KVA	15KVA	20KVA	30KVA	40KVA	50KVA	75KVA	100KVA
Input	Phase	Single Phase								
	<b>Voltage</b>	<b>AC 96V-144V</b>								
	Frequency	50Hz/60Hz								
Output	Voltage	AC 120V±3%(110/127V±3%optional)								
	Capacity	4KW	8KW	12KW	16KW	24KW	32KW	40KW	60KW	80KW
	Frequency	50Hz/60Hz								
Protection	Low Voltage	100±4V(92 ±4V/106 ±4V)								
	Over Voltage	134 ±4V(123 ±4V/ 142±4V)								
	Time Delay	5s / 255s optional								
	Overload	MCU (cutting off output for 3 seconds when exceeding rated power by 120%)								
	Short Circuit	Circuit Breaker								
	Other	Surge protection								
Efficiency	AC-AC	98%								
Acoustic	Noise level	≤50dB								
Environment	Temperature	-5℃ to 40℃								
	Humidity	20% to 90%								

### • Product Appearance

#### PWR-LV



PWR-LV-15K

PWR-LV-20K

PWR-LV-30K

#### ◆ Display Options



• A

• B

• C

• D

# TWS-LV

## Wall-mounted Single Phase Servo Motor Type

5KVA-30KVA



### Features:

- ◆ Ultra-low input voltage
- ◆ Over voltage & Under voltage protection
- ◆ Reaction time( voltage stabilization time)  $\leq 2s$
- ◆ High precision:  $120VAC \pm 3\%$
- ◆ Over temperature protection
- ◆ Short delay (5s) & Long delay (255s)

## • Technical Parameter

Specification		5KVA	10KVA	15KVA	20KVA	30KVA
Input	Phase	Single phase				
	<b>Voltage</b>	<b>AC 90V-140V</b>				
	Frequency	50Hz/60Hz				
Output	Voltage	AC 120V±3%(110V/127V±3% optional)				
	Capacity	2400W	4000W	8KW	12KW	16KW
	Frequency	50Hz/60Hz				
Protection	Low voltage	100±4V/(92±4V/106±4V)				
	Over voltage	134V±4V(123±4V/142V±4V)				
	Time delay	5s (255s optional)				
	Overload	MCU (cutting off output for 3 seconds when exceeding rated power by 120%)				
	Short circuit	Circuit Breaker				
Other	Surgee protection(optional)					
Product	Dimension	340*460*160	340*460*160	540*725*240	540*725*240	540*725*240
Efficiency	AC-AC	98%				
Acoustic	Noise level	≤50dB				
Environment	Temperature	-5 C to 40 C				
	Humidity	20% to 90%				

• Product Appearance

## TWS-LV



TWS-LV-5K



TWS-LV-10K



TWS-LV-15K



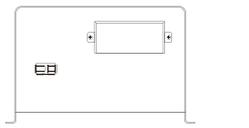
TWS-LV-20K



TWS-LV-30K

◆ Bottom Panel

- 5000VA-30000VA



◆ Display Options



• A

• B

• C

• D

# PWR-2

## Dual Phase Servo Motor Type

10KVA-60KVA



### Features:

- ◆ Low input voltage
- ◆ More accurate output precision  $\leq 2\%$
- ◆ Over voltage & Under voltage protection
- ◆ Themistor, upgraded function to offer more accurate over-heat protection to the device.
- ◆ If fan is not working, the device will cut off the output to avoid over-heat.
- ◆ Overload protection (on PCB)  $\geq 120\%$
- ◆ MCU control
- ◆ Multi display
- ◆ Surge protection



### • Technical Parameter

Specification		10KVA	15KVA	20KVA	30KVA	45KVA	50KVA	60KVA
Input	Phase	Dual Phase						
	<b>Voltage</b>	<b>AC 96V-144V</b>						
	Frequency	50Hz/60Hz						
Output	Voltage	AC 120V/240V±3%(110/220V±3%optional)						
	Capacity	8KW	12KW	16KW	24KW	36KW	40KW	48KW
	Frequency	50Hz/60Hz						
Protection	Low Voltage	100±4V/200±4V						
	Over Voltage	134±4V/268±4V						
	Time Delay	5s / 255s optional						
	Overload	MCU (cutting off output for 3 seconds when exceeding rated power by 120%)						
	Short Circuit	Circuit Breaker						
	Other	Surge protection						
Efficiency	AC-AC	98%						
Acoustic	Noise level	≤50dB						
Environment	Temperature	-5°C to 40°C						
	Humidity	20% to 90%						

### • Product Appearance

#### PWR-2



PWR-2-20K



PWR-2-30K



PWR-2-50K

#### ◆ Display Options



• A

• B

• C

• D

# PWR-3-LV

## Three Phase Servo Motor Type

15KVA-300KVA



### Features:

- ◆ More accurate output precision  $\leq 2\%$
- ◆ MCU Control
- ◆ Surge protection
- ◆ Industrial strength components
- ◆ If fan fails, the device will cut off the output to avoid over-heat
- ◆ 100% unbalanced loading capability
- ◆ Ultra-low input voltage
- ◆ Overload protection (on PCB)  $\geq 120\%$
- ◆ Multi display

## • Technical Parameter

Specification		15KVA	30KVA	45KVA	60KVA	75KVA	100KVA
Input	Phase	3-phase 3-wire					
	<b>Voltage</b>	<b>AC 166V-250V(±20%)/156V-260V(±25%)/145V-270V(±30%)</b>					
	Frequency	50Hz/60Hz					
Output	Voltage	AC 208V±3%/220V±3%					
	Capacity	12KW	24KW	36KW	48KW	60KW	80KW
	Frequency	50Hz/60Hz					
Protection	Low voltage	174±4V/184±4V					
	Over voltage	233V±4V/246V±4V					
	Time delay	5s					
	Overload	MCU (cutting off output for 3 seconds when exceeding rated power by 120%)					
	Short circuit	Circuit Breaker					
	Other	surge, phase-sequence, phase loss					
Efficiency	AC-AC	98%					
Acoustic	Noise level	≤50dB					
Environment	Temperature	-5°C to 40°C					
	Humidity	20% to 90%					

Specification		120KVA	150KVA	200KVA	250KVA	300KVA
Input	Phase	3-phase 3-wire				
	<b>Voltage</b>	<b>AC 166V-250V(±20%)/156V-260V(±25%)/145V-270V(±30%)</b>				
	Frequency	50Hz/60Hz				
Output	Voltage	AC 208V±3%/220V±3%				
	Capacity	96KW	120KW	160KW	200KW	240KW
	Frequency	50Hz/60Hz				
Protection	Low voltage	174±4V/184±4V				
	Over voltage	233V±4V/246V±4V				
	Time delay	5s				
	Overload	MCU (cutting off output for 3 seconds when exceeding rated power by 120%)				
	Short circuit	Circuit Breaker				
	Other	surge, phase-sequence, phase loss				
Efficiency	AC-AC	98%				
Acoustic	Noise level	≤50dB				
Environment	Temperature	-5°C to 40°C				
	Humidity	20% to 90%				

• Product Appearance

## PWR-3-LV



PWR-3-LV-30KVA



PWR-3-LV-45KVA



PWR-3-LV-60KVA



PWR-3-LV-100KVA



PWR-3-LV-150KVA

◆ Display



• D

# SBW-F IP54

## Three Phase Servo Motor Automatic Voltage Regulator

300KVA-3000KVA



The SBW-F Series Three-Phase Automatic Compensation Voltage Stabilizer, designed with advanced European technology, is customizable for different regional needs. It ensures stable output voltage during external grid fluctuations or load changes.

Main advantages include high capacity, efficiency, no waveform distortion, and stable voltage regulation.

SBW-F series with Independent Phase Control: best for unbalanced loads, this model independently regulates each phase, providing precise voltage stability in complex power grid environments.

The SBW-F series stabilizer is widely applied in the field of industry, agriculture, transportation, telecommunications etc, ensuring efficient equipment operation in various scenarios.



### • Technical Parameter

Specification		300KVA	400KVA	500KVA	600KVA	1500KVA	2000KVA	3000KVA
Input	Phase	3-phase 3-wire						
	<b>Voltage</b>	<b>AC 480V±16%</b>						
	Frequency	50Hz/60Hz						
Output	Voltage	AC 480V±3%						
	Capacity	240KW	320KW	400KW	480KW	1200KW	1600KW	2400KW
	Frequency	50Hz/60Hz						
Bypass	Current	630A	800A	1000A	1250A	3200A	4000A	6300A
Protection	Low voltage	420±7V						
	Over voltage	525V±7V						
	Time delay	10 seconds						
	Overload	MCU(cutting off output for 60 seconds when exceeding rated power by 120%)						
	Short circuit	Circuit Breaker						
	Other	surge, phase-sequence, phase loss						

### • Product Appearance

#### SBW-F



300KVA



400KVA



1000KVA

# ST

## Step Up & Down Transformer

500VA-2000VA



**ST** Step up/down voltage converter ,we have two transformers for your option.EI transformer/Toroidal transformer.

### Input voltage range:

- ◆ 110V/200V/220V/240V

### Ouput frequency range:

- ◆ 110V & 220V or customized

### Features:

- ◆ Step Up/ Down Voltage Converter
- ◆ EI Transformer / Toroidal Transformer
- ◆ Durable Enclosure
- ◆ Power Source Indicating Switch

## • Product Appearance



50VA/75VA



100VA/150VA



200VA/250VA/300VA



500VA/750VA



1000VA/1500VA/2000VA

# TDGC<sub>2</sub>/TSGC<sub>2</sub>

## Manual Voltage Regulator



### • Technical Parameter

Specification & Capacity	Max output capacity KVA	Rated input voltage V	Rated output voltage V	Max output current A	Overall size (W*D*L)mm	TQY(PCI)	Package size/set (W*D*L)mm	Net weight kg	Gross werght kg	no of phase
TSGC <sub>2</sub> -1.5	1.5	380V	0-430V	2	125x180x340	1	200x260x400	9.8	12	3
TSGC <sub>2</sub> -3	3.0			4	180x250x430	1	300x220x510	17	21.5	
TSGC <sub>2</sub> -6	6.0			8	180x250x460	1	330x220x560	22	27	
TSGC <sub>2</sub> -9	9.0			12	210x250x590	1	320x260x580	29	35	
TSGC <sub>2</sub> -15	15.0			20	240x330x560	1	390x295x650	48	56	
TSGC <sub>2</sub> -20	20.0			27	240x330x580	1	390x295x650	53	60	
TSGC <sub>2</sub> -30	30.0			40	350x420x1060	1	440x450x1170	138	150	

Specification & Capacity	Max output capacity KVA	Rated input voltage V	Rated output voltage V	Max output current A	Overall size (W*D*L)mm	TQY(PCI)	Package size/set (W*D*L)mm	Net weight kg	Gross werght kg	no of phase
TDGC <sub>2</sub> -0.2	0.2	220V	0-250V	0.8	105x130x130	12	380x347x350	25	26.5	1
TDGC <sub>2</sub> -0.5	0.5			2	125x150x130	8	380x347x350	27	28	
TDGC <sub>2</sub> -1	1.0			4	180x200x210	4	435x255x465	25	26	
TDGC <sub>2</sub> -2	2.0			8	180x200x210	4	435x255x465	31.5	33	
TDGC <sub>2</sub> -3	3.0			12	210x230x230	2	490x275x290	21.5	23	
TDGC <sub>2</sub> -5	5.0			20	240x285x250	1	330x275x290	17.5	18	
TDGC <sub>2</sub> -10	10.0			40	240x335x400	1	390x295x505	34	40	
TDGC <sub>2</sub> -15	15.0			60	240x335x560	1	390x295x650	50	58	
TDGC <sub>2</sub> -20	20.0			80	240x340x590	1	390x295x650	53	60	



EY-01



EY-02



EY-08



EY-09



EY-30



EY-20



EY-24



EY-28



EY-29



EY-30



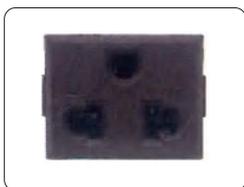
EYE-01



EYE-06



EYE-09



EYE-11



EYE-20



EYE-16



EYE-13



EYE-14



EYE-18



EYE-19



EYE-21



EYE-22



EYE-24



EYE-25



EYE-25



• A



• B



• C



• D



• LED display



• Analog display

# Global Branches & Agents

## **KINMO PW CORPORATION**

Contact Nos.: T 8251-0507 T 8251-0508

Mobile No.: +63977-840-7799

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

Add: 20 Harrow Road, Msasa, Harare, Zimbabwe

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## **KIARA GREENENERGY SDN BHD**

**Malaysia Agent**

CEO: DANIEL NG

Email: daniel@yiyen.com

Telephone:+60102091616

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

---

## **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**

**ZHEJIANG YIYEN HOLDING GROUP CO.,LTD**

Tel: +86-577-27772199 27772139

Email: [yiyen@yiyen.com](mailto:yiyen@yiyen.com)

Website: [www.yiyen.com](http://www.yiyen.com)

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

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**WENZHOU YIYEN SUPPLY CHAIN MANAGEMENT CO.,LTD**

Add: Rm.1301.Building 3.Headquarters Economic Park .No.6688  
Xuyang Road. Yueqing City. 325600.Zhejiang

**LISHUI YIYEN TECHNOLOGY CO.,LTD**

Add:No.77,Xiang Long Road,Lian Du Zone,Lishui City,Zhejiang  
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