

YIY

AUTOMATIC 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



30000m²+
Plant Area



15 year +
Years Experience



100,000+ /year
Unit Shipments



ENTERPRISE ARCHITECTURE



Headquarters

ZHEJIANG YIYEN HOLDING GROUP



Intelligent
Manufacturing

Lishui Yiyen Technology
CO.,LTD



Factory



Globalization
Channel

Wenzhou Yiyen Supply Chain
Management CO.,LTD



Marketing/Sales/Sourcing
Total Solutions and Technical Services



Investment
Operation

Wenzhou Yiyen Energy
Development CO.,LTD



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



R&D

Nanjing Branch
Shenzhen Branch
Hangzhou Branch



R&D Center

50+

R&D Staff



130+

Export Countries



100+

Intellectual Properties



Qualification Certification

ISO9001



QUALITY MANAGEMENT SYSTEM CERTIFICATE
Certificate No. : 2022ZQ2119R05

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

ZHEJIANG QUANPIN CERTIFICATION CO.,LTD.
Room 601, Floor 6, Building 1, No. 14, Paper Road, Paper Street, Binjiang District, Hangzhou City,
Zhejiang Province, China 310015. Website: <http://www.gpc.org.cn>

ISO45001



OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE
Certificate No. : 2022ZS20467R05

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)

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Zhejiang Province, China 310015. Website: <http://www.gpc.org.cn>

ISO14001



ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE
Certificate No. : 2022ZE20495R05

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)

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Room 601, Floor 6, Building 1, No. 14, Paper Road, Paper Street, Binjiang District, Hangzhou City,
Zhejiang Province, China 310015. Website: <http://www.gpc.org.cn>

Certificate of Conformity



Certification No.: KE13090909049
Applicant: LISIANG YIYEN TECHNOLOGY COMPANY LIMITED
Address: No.77,Xiang Long Road(Lian Du Zone),Lanzhou City,Zhejiang Province, China
Manufacturer: LISIANG YIYEN TECHNOLOGY COMPANY LIMITED
Address: No.77,Xiang Long Road(Lian Du Zone),Lanzhou City,Zhejiang Province, China
Certification: CE-LVD
Product Description: Three phase automatic compensation voltage regulator
Model: SSW-200VA, SSW-300VA, SSW-400VA, SSW-500VA, SSW-600VA, SSW-700VA, SSW-800VA, SSW-900VA, SSW-1000VA, SSW-1200VA, SSW-1500VA, SSW-1800VA, SSW-2000VA, SSW-2500VA, SSW-3000VA, SSW-3500VA, SSW-4000VA, SSW-4500VA, SSW-5000VA, SSW-5500VA, SSW-6000VA, SSW-6500VA, SSW-7000VA, SSW-7500VA, SSW-8000VA, SSW-8500VA, SSW-9000VA, SSW-9500VA, SSW-10000VA

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
Address: No. 40, Liangning C, Xixiang Technology Industrial Park, Xixiang Street, Xixiang, Shenzhen, Guangdong, China

Certificate of Conformity



The following product has been tested by us with the latest standards and found in conformity with the original EMC Directive 2014/53/EU. It is possible to use CE marking to demonstrate the conformity with the EMC Directive.
Applicant: YIQING YIYEN ELECTRIC TECHNOLOGY COMPANY LIMITED
Address: 4th Floor, No.201,Wei 18 Road, Economic Development Zone, Yangqing City, 323000, Zhejiang Province, China
Manufacturer: Shenzhen Yiyen Technology Co., Ltd
Address: 4th Floor, Building A, Guangshe Industrial Zone, Qianhai Road, Longhua Town, Basse District, Shenzhen City, 518105, China
Trade Mark: YTY
EUT: Automatic Voltage Regulator
M/N: SVR-100VA, SVR-150VA, SVR-200VA, SVR-250VA, SVR-300VA, SVR-350VA, SVR-400VA, SVR-450VA, SVR-500VA, SVR-550VA, SVR-600VA, SVR-650VA, SVR-700VA, SVR-750VA, SVR-800VA, SVR-850VA, SVR-900VA, SVR-950VA



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: YTY
EUT: Automatic Voltage Regulator
M/N: SVR-100VA, SVR-150VA, SVR-200VA, SVR-250VA, SVR-300VA, SVR-350VA, SVR-400VA, SVR-450VA, SVR-500VA, SVR-550VA, SVR-600VA, SVR-650VA, SVR-700VA, SVR-750VA, SVR-800VA, SVR-850VA, SVR-900VA, SVR-950VA



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Manufacturer: Shenzhen Yiyen Technology Co., Ltd
Address: 4th Floor, Building A, Guangshe Industrial Zone, Qianhai Road, Longhua Town, Basse District, Shenzhen City, 518105, China
Trade Mark: YTY
EUT: Automatic Voltage Regulator
M/N: TR-100VA, TR-150VA, TR-200VA, TR-250VA, TR-300VA, TR-350VA, TR-400VA, TR-450VA, TR-500VA, TR-550VA, TR-600VA, TR-650VA, TR-700VA, TR-750VA, TR-800VA, TR-850VA, TR-900VA, TR-950VA



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Manufacturer: Shenzhen Yiyen Technology Co., Ltd
Address: 4th Floor, Building A, Guangshe Industrial Zone, Qianhai Road, Longhua Town, Basse District, Shenzhen City, 518105, China
Trade Mark: YTY
EUT: Automatic Voltage Regulator
M/N: TR-100VA, TR-150VA, TR-200VA, TR-250VA, TR-300VA, TR-350VA, TR-400VA, TR-450VA, TR-500VA, TR-550VA, TR-600VA, TR-650VA, TR-700VA, TR-750VA, TR-800VA, TR-850VA, TR-900VA, TR-950VA



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Manufacturer: Shenzhen Yiyen Technology Co., Ltd
Address: 4th Floor, Building A, Guangshe Industrial Zone, Qianhai Road, Longhua Town, Basse District, Shenzhen City, 518105, China
Trade Mark: YTY
EUT: Automatic Voltage Regulator
M/N: TSD-100VA, TSD-150VA, TSD-200VA, TSD-250VA, TSD-300VA, TSD-350VA, TSD-400VA, TSD-450VA, TSD-500VA, TSD-550VA, TSD-600VA, TSD-650VA, TSD-700VA, TSD-750VA, TSD-800VA, TSD-850VA, TSD-900VA, TSD-950VA



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Address: 4th Floor, No.201,Wei 18 Road, Economic Development Zone, Yangqing City, 323000, Zhejiang Province, China
Manufacturer: Shenzhen Yiyen Technology Co., Ltd
Address: 4th Floor, Building A, Guangshe Industrial Zone, Qianhai Road, Longhua Town, Basse District, Shenzhen City, 518105, China
Trade Mark: YTY
EUT: Automatic Voltage Regulator
M/N: TSD-100VA, TSD-150VA, TSD-200VA, TSD-250VA, TSD-300VA, TSD-350VA, TSD-400VA, TSD-450VA, TSD-500VA, TSD-550VA, TSD-600VA, TSD-650VA, TSD-700VA, TSD-750VA, TSD-800VA, TSD-850VA, TSD-900VA, TSD-950VA



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.

EMTEK TEST REPORT

TEST REPORT EN 61008-2-12
Safety of power transformers, power supply units and similar Part 12: Particular requirements for constant voltage transformers
Report reference No.: EN13092004
Issued by: Applicant: Alper Sar
Approved by: Applicant: Mithan Saei
Date of issue: May 25, 2017
Total number of pages: 13 pages
Testing laboratory: EMTEK (SHENZHEN) CO., LTD
Address: 8th Floor, Building Industry Zone, Nanshan District, Shenzhen City, Guangdong, China
Testing facilities used: Same as above
Applicant's name: YIQING YIYEN ELECTRIC TECHNOLOGY COMPANY LIMITED
Address: 4th Floor, No. 201 Wei 18 Road, Economic Development Zone, Yangqing City, Zhejiang Province, China
Test specification: EN 61008-2-12:2011
EN 61008-2-12:2011 with modification EN 61008-2-12:2011-010
Test procedure: Compliance with EN 61008-2-12:2011 with modification EN 61008-2-12:2011-010
Non-standard test method: NA
Type: Automatic Voltage Regulator
Trade Mark: YTY
Manufacturer: Shenzhen Yiyen Technology Co., Ltd
Address: 4th Floor, Building A, Guangshe Industrial Zone, Qianhai Road, Longhua Town, Basse District, Shenzhen City, 518105, China
Model/Type reference: TSD-100VA, TSD-150VA, TSD-200VA, TSD-250VA, TSD-300VA, TSD-350VA, TSD-400VA, TSD-450VA, TSD-500VA, TSD-550VA, TSD-600VA, TSD-650VA, TSD-700VA, TSD-750VA, TSD-800VA, TSD-850VA, TSD-900VA, TSD-950VA
Range: See the rating label.

PRODUCT CATALOG

Servo Motor Type

SVC Single Phase	01
PRO Single Phase	05
PWR Single Phase	09
TSS Wall-mounted Single Phase	12
SVC-3 Three Phase	15
PRO-3 Three Phase	18
PWR-3 Three Phase	21
SBW-F Three Phase (Industrial)	24
SBW Three Phase (Industrial)	27

PRODUCT CATALOGUE

UE

Relay Type

AVR Single Phase 31

TRS Wall-Mounted Single Phase 35

PR Portable Single Phase 39

IGBT Type

CVCF Voltage and Frequency Stabilisers 42

AVC Active Voltage Conditioner 44

Other Types

ST Step Up & Down Transformer 49

TDGC2/TSGC2 Manual Voltage Regulator 51

SVC

Single Phase Servo Motor Type

500VA-30000VA



Input voltage range:

- ◆ 150V-250V / 176V-264V (For 220V System)
- ◆ 105-149V (for 127V system)

Features:

- ◆ Over voltage & Under voltage protection
- ◆ Short circuit & Overload protection
- ◆ Over temperature protection
- ◆ Wide input voltage range
- ◆ Short delay & Long delay

• Technical Parameter

Specification		500VA	1000VA	1500VA	2000VA	3000VA	5000VA	
Input	Phase	Single phase						
	Voltage	AC 150V-250V or 105-149V						
	Frequency	50Hz/60Hz						
Output	Voltage	AC 220V ±3% or 127V ±3% / customized						
	Capacity	400W	800W	1200W	1600W	2400W	4000W	
	Frequency	50Hz/60Hz						
Protection	Low voltage	184V±4V or 107V±4V						
	Over voltage	246V±4V or 142V±4V						
	Time Delay	3-6 s / 3-6 min 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	10000VA	12KVA	10000VA (Tower)	15KVA (Tower)	20KVA (Tower)	30KVA (Tower)	
Input	Phase	Single phase							
	Voltage	AC 150V-250V or 105V-149V				AC 176V-264V			
	Frequency	50Hz/60Hz							
Output	Voltage	AC 220V ±3% or 127V ±3% / customized							
	Capacity	6400W	8000W	9600W	8000W	12000W	16000W	24000W	
	Frequency	50Hz/60Hz							
Protection	Low voltage	184V±4V or 107V±4V							
	Over voltage	246V±4V or 142V±4V							
	Time Delay	3-6 s / 3-6 min 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)	460*360*290			370*330*580	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

SVC I



500VA



1000VA/1500VA



2000VA



3000VA



5000VA



8000VA/10000VA/12000VA

SVC II



500VA



1000VA/1500VA



2000VA



3000VA



5000VA



8000VA/10000VA/12000VA

• Product Appearance

SVC I



10KVA

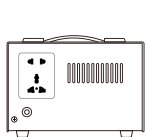


20KVA

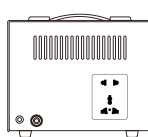


30KVA

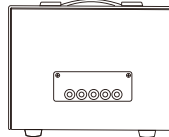
◆ Rear Panel



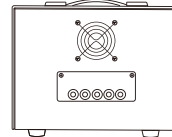
• 500VA-1000VA



• 1500VA



• 2000VA-5000VA



• 8000VA-12000VA

◆ Display Options



• Analog display



• LED display

◆ Socket Options



• Universal



• UK 13



• UK 15



• European



• Indian R6



• US

* More options, please turn to page 42

PRO

Single Phase Servo Motor Type

500VA-30000VA



Input voltage range:

- ◆ 100V-250V / 150V-250V / 176V-264V (For 220V System)
- ◆ 105-149V (for 127V system)

Features:

- ◆ MCU control
- ◆ Overload protection(on PCB)≥120%
- ◆ Over voltage & Under voltage protection
- ◆ Dual LED display/ Multi display
- ◆ More accurate output precision≤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						
	Voltage	AC 150V-250V or 105V-149V						
	Frequency	50Hz/60Hz						
Output	Voltage	AC 220V ±3% or 127V ±3% / customized						
	Capacity	400W	800W	1200W	1600W	2400W	4000W	
	Frequency	50Hz/60Hz						
Protection	Low voltage	184V±4V or 107V±4V						
	Over voltage	246V±4V or 142V±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	10000VA	12KVA	10000VA (Tower)	15000VA (Tower)	20000VA (Tower)	30000VA (Tower)	
Input	Phase	Single phase							
	Voltage	AC 150V-250V or 104V-149V				AC 176V-264V or 105V-149V			
	Frequency	50Hz/60Hz							
Output	Voltage	AC 220V ±3% or 127V ±3% customized							
	Capacity	6400W	8000W	9600W	80000W	12000W	16000W	24000W	
	Frequency	50Hz/60Hz							
Protection	Low voltage	184V±4V or 107V±4V							
	Over voltage	246V±4V or 142V±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



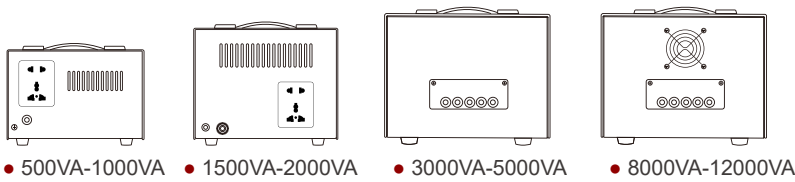
10000VA

15000VA

20000VA

30000VA

◆ Rear Panel



• 500VA-1000VA

• 1500VA-2000VA

• 3000VA-5000VA

• 8000VA-12000VA

◆ Display Options



• A

• B

• C

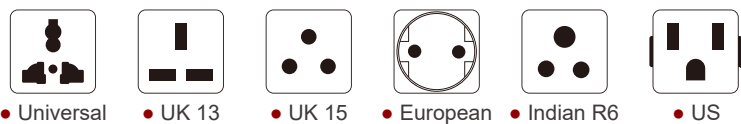
• D

• 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

15KVA-100KVA



Input voltage range:

- ◆ 165V-275V/154V-286V (For 220V System)
- ◆ 88V-132/82V-137V/77V-143V (For 110V system)

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 (European Standard)

Specification		PWR-15K	PWR-20K	PWR-30K	PWR-40K	PWR-50K	PWR-70K	PWR-100K
Input	Phase	Single Phase						
	Voltage	AC 165V-275V(±25%)/154V-286V(±30%)						
	Frequency	50Hz/60Hz						
Output	Voltage	AC 220V±3%/230V±3%						
	Capacity	12000W	16000W	24000W	32000W	40000W	56000W	80000W
	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%						

• Technical Parameter (American Standard)

Specification		PWR-15K	PWR-20K	PWR-30K	PWR-40K	PWR-50K	PWR-70K	PWR-100K
Input	Phase	Single Phase						
	Voltage	AC 88V-132(±20%)/82V-137V(±25%)/77V-143V(±30%)						
	Frequency	50Hz/60Hz						
Output	Voltage	AC 110V±3%/120±3%/127V±3%						
	Capacity	12000W	16000W	24000W	32000W	40000W	56000W	80000W
	Frequency	50Hz/60Hz						
Protection	Low Voltage	92±4V/100±4V/106±4V						
	Over Voltage	123V±4V/134±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	Surge protection						
Efficiency	AC-AC	98%						
Acoustic	Noise level	≤50dB						
Environment	Temperature	-5 C to 40 C						
	Humidity	20% to 90%						

• Product Appearance

PWR



PWR-15K



PWR-20K



PWR-30K

◆ Display Options



• A

• B

• C

• D

TSS

Wall-mounted Single Phase Servo Motor Type

5KVA-30KVA



Input voltage range:

- ◆ 80V-280V (For 220V System)
- ◆ 90V-140V (For 110V System)

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 (European Standard)

Specification		TSS-5K	TSS-10K	TSS-15K	TSS-20K	TSS-30K
Input	Phase	Single phase				
	Voltage	AC 80V-280V				
	Frequency	50Hz/60Hz				
Output	Voltage	AC 220V±3%/230V±3%				
	Capacity	4000W	8000W	12000W	16000W	24000W
	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%				

• Technical Parameter (American Standard)

Specification		TSS-5K	TSS-10K	TSS-15K	TSS-20K	TSS-30K
Input	Phase	Single phase				
	Voltage	AC 90V-140V				
	Frequency	50Hz/60Hz				
Output	Voltage	AC 110V±3%/127V±3%				
	Capacity	4000W	8000W	12000W	16000W	24000W
	Frequency	50Hz/60Hz				
Protection	Low voltage	92±4V/106±4V				
	Over voltage	123V±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*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

TSS



TSS-5K



TSS-10K



TSS-15K



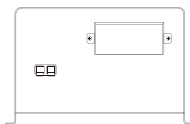
TSS-20K



TSS-30K

◆ Bottom Panel

- 5000VA-30000VA



◆ Display Options



• A



• B



• C



• D



• Dual LED display

SVC-3(TNS)

Three Phase Servo Motor Type

1.5KVA-100KVA



Input voltage range:

- ◆ 304V-456V / 278V-433V (For 380V System)
- ◆ 152V-228V / 166V-249V / 173V-263V (For 220V System)

Features:

- ◆ LED/Analog displays are optional
- ◆ Isolated manual bypass switch
- ◆ Industrial strength components
- ◆ Three phase compensation servo motor technology
- ◆ 100% unbalanced loading capability
- ◆ Wide AC input voltage range
- ◆ Full protection circuit

• Technical Parameter

Specification		1.5KVA	3KVA	4.5KVA	6KVA	9KVA	15KVA
Input	Phase	3-phase 4-wire(Can be customized 3-phase 3-wire)					
	Voltage	278V-433V or 152V-228V / 166V-249V					
	Frequency	50Hz/60Hz					
Output	Voltage	AC 380V ±3% or 220V ±3% / customized					
	Capacity	1200W	2400W	3600W	4800W	7200W	12000W
	Frequency	50Hz/60Hz					
Protection	Low voltage	318V±7V or 184V±7V					
	Over voltage	426V±7V or 246V±7V					
	Time delay	Default 3-6s					
	Overload/ short circuit	MCB/MCCB					
Packaging	Pcs per Carton	1					
	Shipping Wt.(kg)	/	/	/	/	/	/
	Package dimensions (mm)	305*405*233			315*365*785		400*370*710
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)						
	Voltage	278V-433V or 152V-228V / 166V-249V			304V-456V			
	Frequency	50Hz/60Hz						
Output	Voltage	AC 380V ±3% or 220V ±3% / customized						
	Capacity	16000W	24000W	36000W	40000W	48000W	60000W	80000W
	Frequency	50Hz/60Hz						
Protection	Low voltage	318V±7V or 184V±7V						
	Over voltage	426V±7V or 246V±7V						
	Time delay	Default 3-6s						
	Overload/ short circuit	MCB/MCCB						
Packaging	Pcs per Carton	1						
	Shipping Wt.(kg)	/	/	/	/	/	/	/
	Package dimensions (mm)	460*410*855			625*605*1015			800*740*1030
Efficiency	AC-AC	98%						
Acoustic	Noise level	≤50dB						
Environment	Temperature	-5°C to 40°C						
	Humidity	20% to 90%						

• Product Appearance

SVC-3



6KVA/9KVA



15KVA



20KVA/30KVA



45KVA/50KVA/60KVA/75KVA



100KVA

◆ Display Options



• LED display



• Analog display

PRO-3

Three Phase Servo Motor Type

1.5KVA-100KVA



Input voltage range:

- ◆ 304V-456V / 278V-433V (For 380V System)
- ◆ 152V-228V / 166V-249V / 173V-263V (For 220V System)

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		1.5KVA	3KVA	4.5KVA	6KVA	9KVA	15KVA
Input	Phase	3-phase 4-wire(Can be customized 3-phase 3-wire)					
	Voltage	278V-433V or 152V-228V / 166V-249V					
	Frequency	50Hz/60Hz					
Output	Voltage	AC 380V ±3% or 220V ±2% / customized					
	Capacity	1200W	2400W	3600W	4800W	7200W	12000W
	Frequency	50Hz/60Hz					
Protection	Low voltage	318V±7V or 184V±7V					
	Over voltage	426V±7V or 246V±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)						
	Voltage	278V-433V or 152V-228V / 166V-249V			304V-456V			
	Frequency	50Hz/60Hz						
Output	Voltage	AC 380V ±3% or 220V ±2% / customized						
	Capacity	16000W	24000W	36000W	40000W	48000W	60000W	80000W
	Frequency	50Hz/60Hz						
Protection	Low voltage	318V±7V or 184V±7V						
	Over voltage	426V±7V or 246V±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

45KVA-150KVA



Input voltage range:

- ◆ 285V-475V/266V-494V (For 380V System)
- ◆ 166V-250V/156V-260V/145V-270V (For 208V System)

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 (European Standard)

Specification		PWR-3-45K	PWR-3-60K	PWR-3-100K	PWR-3-120K	PWR-3-150K
Input	Phase	3-phase 4-wire				
	Voltage	AC 285V-475V(±25%)/266V-494V(±30%)				
	Frequency	50Hz/60Hz				
Output	Voltage	AC 380V±3%/400V±3%				
	Capacity	36000W	48000W	80000W	96000W	120000W
	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%				

• Technical Parameter (American Standard)

Specification		PWR-3-45K	PWR-3-60K	PWR-3-100K	PWR-3-120K	PWR-3-150K
Input	Phase	3-phase 3-wire				
	Voltage	AC 166V-250V(±20%)/156V-260V(±25%)/145V-270V(±30%)				
	Frequency	50Hz/60Hz				
Output	Voltage	AC 208V±3%/220V±3%				
	Capacity	36000W	48000W	80000W	96000W	120000W
	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



30KVA

45KVA

60KVA

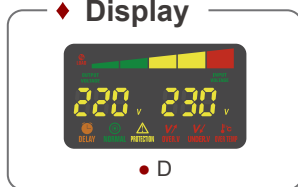


100KVA



150KVA

◆ Display



• D

SBW-F

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 (European Standard)

Specification		SBW-F-150K	SBW-F-200K	SBW-F-250K	SBW-F-300K	SBW-F-400K
Input	Phase	3-phase 4-wire				
	Voltage	AC 304V-456V(±20%)/285V-475V(±25%)/266V-494V(±30%)				
	Frequency	50Hz/60Hz				
Output	Voltage	AC 380V±3%/400V±3%				
	Capacity	120000W	160000W	200000W	240000W	320000W
	Frequency	50Hz/60Hz				
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		SBW-F-500K	SBW-F-600K	SBW-F-1000K	SBW-F-1500K	SBW-F-2000K	SBW-F-3000K
Input	Phase	3-phase 4-wire					
	Voltage	AC 304V-456V(±20%)/285V-475V(±25%)/266V-494V(±30%)					
	Frequency	50Hz/60Hz					
Output	Voltage	AC 380V±3%/400V±3%					
	Capacity	400000W	480000W	800000W	1200000W	1600000W	2400000W
	Frequency	50Hz/60Hz					
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					

• Technical Parameter (American Standard)

Specification		SBW-F-300K	SBW-F-400K	SBW-F-500K	SBW-F-600K	SBW-F-1500K	SBW-F-2000K	SBW-F-3000K
Input	Phase	3-phase 3-wire						
	Voltage	AC 480V±16%						
	Frequency	50Hz/60Hz						
Output	Voltage	AC 480V±3%						
	Capacity	240000W	320000W	400000W	480000W	1200000W	1600000W	2400000W
	Frequency	50Hz/60Hz						
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



150-300KVA



400KVA



1000KVA

SBW

Three Phase Servo Motor Automatic Voltage Regulator

50KVA-3000KVA



The SBW 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 series Without Independent Phase Control: ideal for balanced three-phase loads, this model ensures overall voltage stability with a simple design and low maintenance costs.

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

• Technical Parameter

Specification		50KVA	60KVA	80KVA	100KVA	150KVA	200KVA	250KVA	300KVA	350KVA
Input	Phase	3-phase 4-wire								
	Voltage	AC 304V-456V								
	Frequency	50Hz/60Hz								
Output	Voltage	AC 380V ±3%								
	Capacity	40KW	48KW	64KW	80KW	120KW	160KW	200KW	240KW	280W
	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							
	Voltage	AC 304V-456V							
	Frequency	50Hz/60Hz							
Output	Voltage	AC 380V ±3%							
	Capacity	320KW	400KW	480KW	640KW	800KW	960KW	1200KW	1600KW
	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

50KVA~300KVA



350KVA~600KVA



800KVA~3000VA

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

• Internal Structure



*Different specifications have different layouts

AVR

Single Phase Relay Type

500VA-20000VA



Input voltage range:

◆ 70V-270V / 90V-270V / 140V-260V

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				
	Voltage	70V-270V/ 90V-270V / 140V-260V				
	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	10000VA	12000VA	15000VA (Tower)	20000VA (Tower)
Input	Phase	Single phase					
	Voltage	70V-270V/ 90V-270V / 140V-260V			90V~270V/125V~270V/140V~260V		
	Frequency	50Hz/60Hz					
Output	Response time	60ms					
	Voltage	AC 220V ±8%~10%					
	Capacity	4000W	5600W	8000W	9600W	12000W	16000W
	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

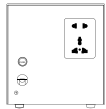


15000VA

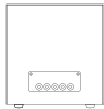


20000VA

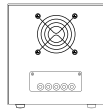
◆ Rear Panel



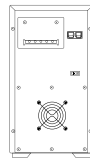
• 500VA-2000VA



• 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



Input voltage range:

◆ 45V-270V / 70V-270V / 90V-270V

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 (European Standard)

Specification		TRS-0.5K	TRS-1K	TRS-1.5K	TRS-2K	TRS-3K	TRS-5K
Input	Phase	Single phase					
	Voltage	AC 90V-270V					
	Frequency	50Hz/60Hz					
Output	Voltage	AC 220V±10%/230V±10%					
	Capacity	400W	800W	1200W	1600W	2400W	4000W
	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℃ to 40℃					
	Humidity	20% to 90%					

Specification		TRS-8K	TRS-10K	TRS-12K	TRS-15K	TRS-20K
Input	Phase	Single phase				
	Voltage	AC 90V-270V				
	Frequency	50Hz/60Hz				
Output	Voltage	AC 220V±10%/230V±10%				
	Capacity	6400W	8000W	9600W	12000W	16000W
	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℃ to 40℃				
	Humidity	20% to 90%				

• Technical Parameter (European Standard)

Specification		TRS-3K	TRS-5K	TRS-8K	TRS-10K	TRS-12K	TRS-15K	TRS-20K
Input	Phase	Single phase						
	Voltage	AC 70V-270V						
	Frequency	50Hz/60Hz						
Output	Voltage	AC 220V±10%/230V±10%						
	Capacity	2400W	4000W	6400W	8000W	9600W	12000W	16000W
	Frequency	50Hz/60Hz						
Protection	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)						

• Technical Parameter (European Standard)

Specification		TRS-5K	TRS-8K	TRS-10K	TRS-12K	TRS-15K	TRS-20K
Input	Phase	Single phase					
	Voltage	AC 45V-270V					
	Frequency	50Hz/60Hz					
Output	Voltage	AC 220V±10%/230V±10%					
	Capacity	4000W	6400W	8000W	9600W	12000	16000W
	Frequency	50Hz/60Hz					
Protection	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 Appearance

TRS

*Case color can be customized



5000VA

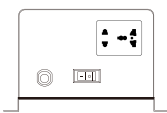


10000VA

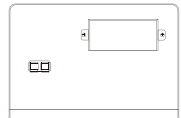


15000VA/20000VA

◆ Bottom Panel



• 500VA-2000VA



• 3000VA-20000VA

◆ Display Options



• A



• B



• C



• D



• Dual LED display

PR

Portable Single Phase Relay Type

500VA-2000VA



Input voltage range:

- ◆ 125V~270V / 140V-260V

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			
	Voltage	AC 125V-270V / 140V-260V			
	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%			



Euro Standard



Multifunctional Socket

*Plugs and sockets can be customized to other specifications.

• Product Appearance



H:7.5CM



W:14.0CM

L:26.0CM



H:9.9CM



W:13.5CM

E:26.0CM

*Plugs and sockets can be customized to other specifications.

CVCF

IGBT Type Single Phase AVR

Voltage and Frequency Stabilisers



Input voltage range:

- ◆ 85-270VAC, 1Phase, 2Wire, +Earth

Input frequency range:

- ◆ 35-70Hz

Features:

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

• Technical Parameter

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

AVC

Active Voltage Conditioner

IGBT Type Automatic Voltage Regulator



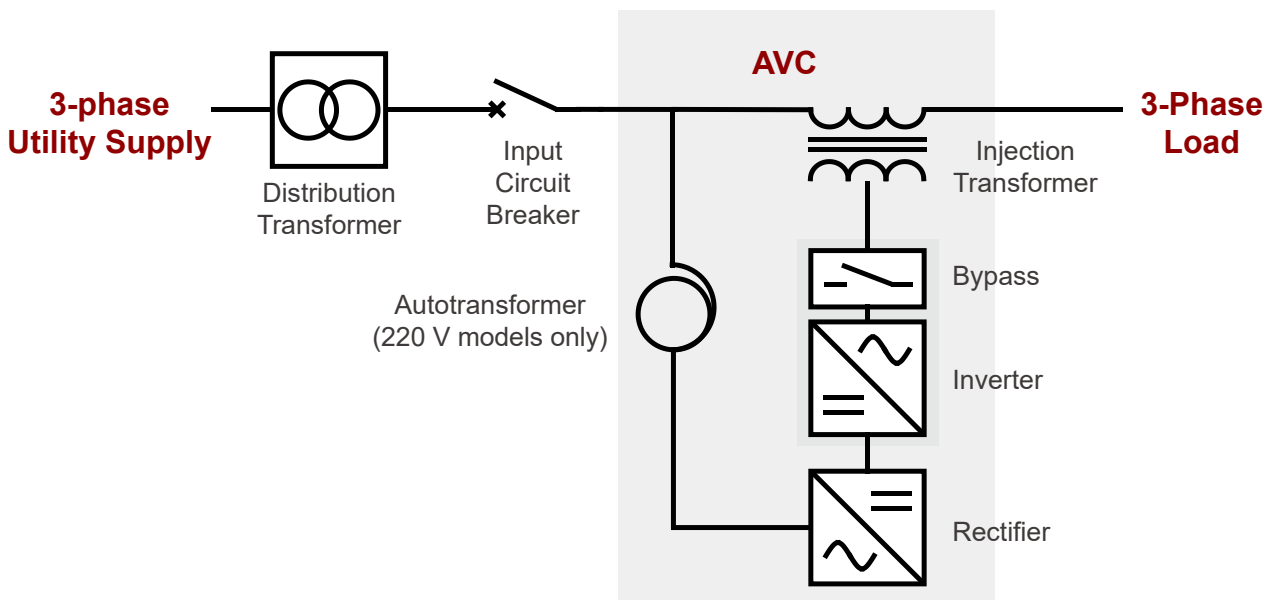
AVC is an inverter based system that protects sensitive industrial and commercial loads from voltage disturbances. Providing fast, accurate voltage sag and surge correction as well as continuous voltage regulation and load voltage compensation. AVC has been optimally designed to provide equipment immunity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



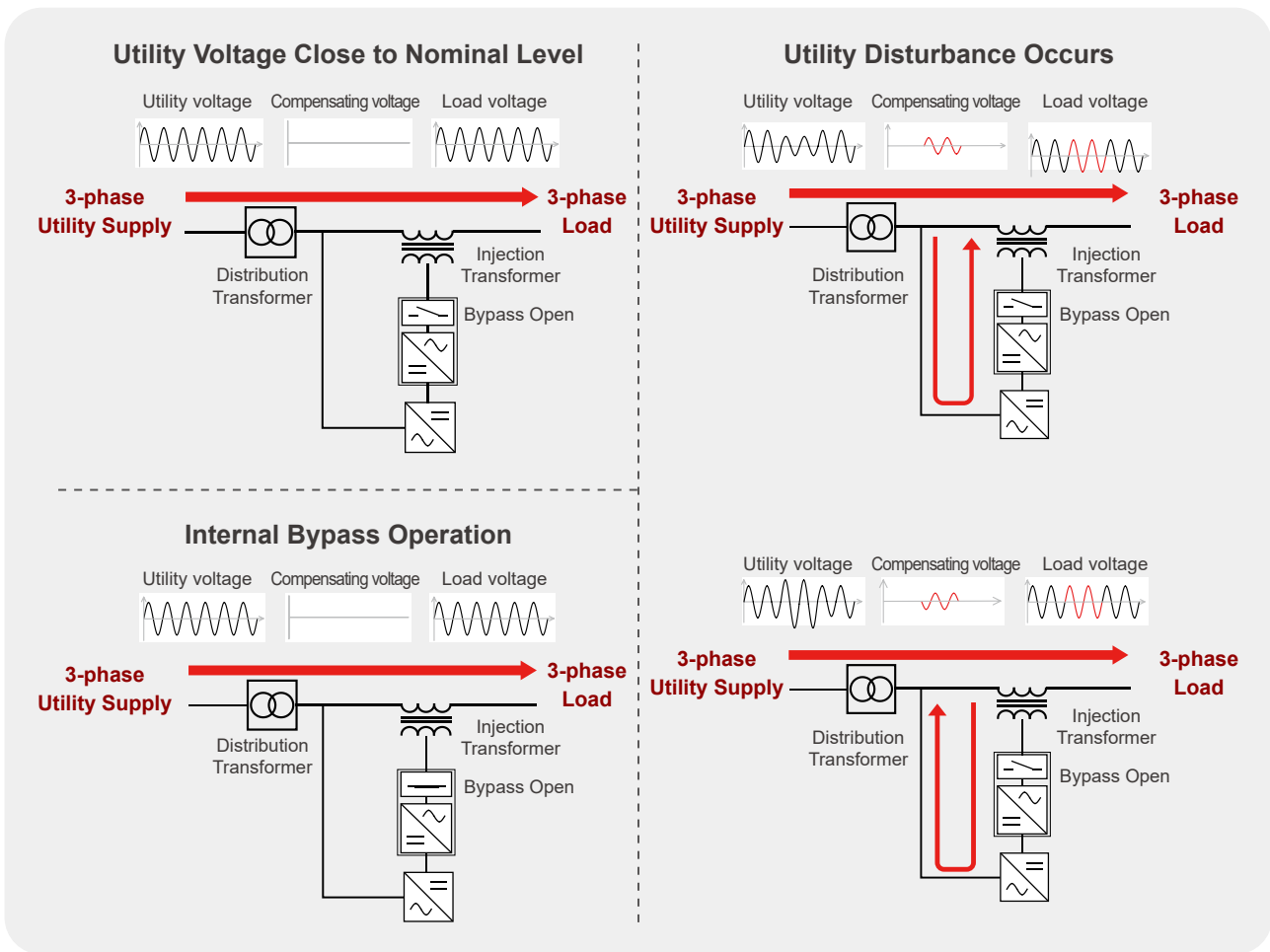
• Technical Parameter (European Standard)

Item	Specification		
Capacity	Single Phase	15-50KVA	60KVA-1800KVA (RND)
	Three Phase	30KVA-500KVA	600KVA-3600KVA (RND)
Input	Power System	Three Phase 380V+N(3 Phase 4 Wire) Center ground referenced (TN-S)	
	Range	220V-application range 176-264V 380V-application range 304-456V	
	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		60% to 100% for 30s	
Three phase sags		50% to 90% for 10s	
Single phase		40% to 100% for 10s	
Overload Protection	Partial correction derating conditions	1.0 PF at 80% load / 0.8 PF at 100% load	
	Bypass	Manual bypass, Automatic bypass	
	Capacity	100% of model rating (Kva)	
	Maximum Overload	120% for 60 s 150% for 15 s 1500% for 1s	
Injection Transformer	Transfer Time	To Bypass < 0.5 ms / To Bypass < 250 ms	
	Equivalent Series Impedance	Bypass < 2.5% typical	
	Transformer Type	Dry	
	Insulation	IEC 60085 Thermal class 200	
Protection	Frequency	50Hz / 60Hz	
	Vector Group	Diii (delta + 3 independent windings)	
Display	Input over/low voltage protection/output over/low voltage protection,input over current protection,TX over heat protection,overload protectcn	Internal	
Environment	7 inch Touch Screen	Parameter control, power info,display,fault log, history curve line, etc.	
	Operating Temperature Range	0°C to 50° C (32° F to 122° F)	
	Temperature Derating	Above 40°C, derate at 2% load per °C to a maximum of 50°C	
	Operating Altitude	< 1000 m without derating	
	Derating with Altitude	1% every 100m above 1500m. 2000m max	
	Inverter Cooling	Forced ventilation	
	Transformer Cooling	Natural convection	
	Humidity	<95%, non-condensing	
	Pollution Degree Rating	200%	
	Noise	<75dBA@1 m	
	Working Temperature	-25~+45°C	
Storage Temperature	-30~+70°C		
Protection Grade	IP54		

• Technical Parameter (American Standard)

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

Operational Detail



Applications

- Electronics industry



- Food and beverage



- Automotive



- Continuous process



- Pharmaceutical



- Medical



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

TDGC₂/TSGC₂

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 ₂ -1.5	1.5	380V	0-430V	2	125x180x340	1	200x260x400	9.8	12	3
TSGC ₂ -3	3.0			4	180x250x430	1	300x220x510	17	21.5	
TSGC ₂ -6	6.0			8	180x250x460	1	330x220x560	22	27	
TSGC ₂ -9	9.0			12	210x250x590	1	320x260x580	29	35	
TSGC ₂ -15	15.0			20	240x330x560	1	390x295x650	48	56	
TSGC ₂ -20	20.0			27	240x330x580	1	390x295x650	53	60	
TSGC ₂ -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 ₂ -0.2	0.2	220V	0-250V	0.8	105x130x130	12	380x347x350	25	26.5	1
TDGC ₂ -0.5	0.5			2	125x150x130	8	380x347x350	27	28	
TDGC ₂ -1	1.0			4	180x200x210	4	435x255x465	25	26	
TDGC ₂ -2	2.0			8	180x200x210	4	435x255x465	31.5	33	
TDGC ₂ -3	3.0			12	210x230x230	2	490x275x290	21.5	23	
TDGC ₂ -5	5.0			20	240x285x250	1	330x275x290	17.5	18	
TDGC ₂ -10	10.0			40	240x335x400	1	390x295x505	34	40	
TDGC ₂ -15	15.0			60	240x335x560	1	390x295x650	50	58	
TDGC ₂ -20	20.0			80	240x340x590	1	390x295x650	53	60	



EY-01



EY-02



EY-08



EY-09



EY-30



EY-20



EY-24



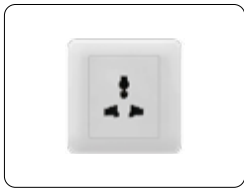
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EY-29



EY-30



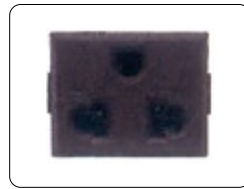
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EYE-06



EYE-09



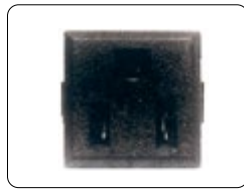
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EYE-16



EYE-13



EYE-14



EYE-18



EYE-19



EYE-21



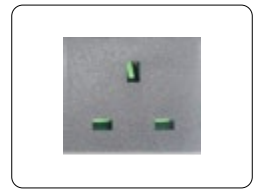
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EYE-24



EYE-25



EYE-25



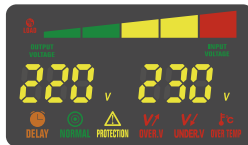
• A



• B



• C



• D



• LED display



• Analog display



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

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