

**YIY**

# **AUTOMATIC VOLTAGE REGULATOR**

**SERVO TYPE / RELAY TYPE/  
IGBT TYPE/ OTHERS**

*Start Digital Power Supply*

# YIYEN HOLDING GROUP

YIYEN HOLDING GROUP is a high-tech company that focuses on researching and manufacturing power electronics 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 services for power systems, communication systems, financial systems, education systems, medical systems, and large industrial and mining enterprises.

Energy storage and energy efficiency management are critical to 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 that improve efficiency, reduce costs, and promote clean energy. YIYEN will always continue to devote itself to the research and development and manufacturing of power electronics 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



**15+**  
Years Experience



**30000m<sup>2</sup>+**  
Plant Area



**100,000+ / year**  
Unit Shipments





**50+**  
R&D Staff



**130+**  
Export Countries



**100+**  
Intellectual Property

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# SVC

## Single Phase Servo Motor Type

500VA-30000VA



### Input voltage range:

- ◆ 150V-250V / 176V-264V (For 220V System)
- ◆ 88V-132V (For 110V 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 88V-132V					
	Frequency	50Hz/60Hz					
Output	Voltage	AC 220V ±3% or 110V ±3% (230V/240V or 120V/127V Optional) / customized					
	Capacity	400W	800W	1200W	1600W	2400W	4000W
	Frequency	50Hz/60Hz					
Protection	Low voltage	184V±4V or 92V±4V					
	Over voltage	246V±4V or 123V±4V					
	Time Delay	3-6 s / 3-6 min selectable					
	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℃ to 40℃					
	Humidity	20% to 90%					

Specification		8000VA	10000VA	12KVA	10000VA (cabinet)	15KVA (cabinet)	20KVA (cabinet)	30KVA (cabinet)
Input	Phase	Single phase						
	Voltage	AC 150V-250V or 88V-132V				176V-264V		
	Frequency	50Hz/60Hz						
Output	Voltage	AC 220V ±3% or 110V ±3% (230V/240V or 120V/127V Optional) / customized						
	Capacity	6400W	8000W	9600W	8000W	12000W	16000W	24000W
	Frequency	50Hz/60Hz						
Protection	Low voltage	184V±4V or 92V±4V						
	Over voltage	246V±4V or 123V±4V						
	Time Delay	3-6 s / 3-6 min selectable						
	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℃ to 40℃						
	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

## • Technical Parameter

### SVC I



10000VA

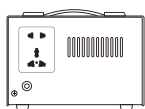


20KVA

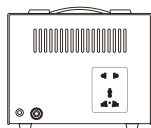


30KVA

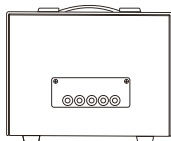
#### ◆ Rear Panel



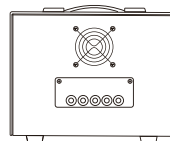
• 500VA-1000VA



• 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 38

# PRO

## Single Phase Servo Motor Type

500VA-30000VA



### Input voltage range:

- ◆ 100V-250V / 150V-250V / 176V-264V (For 220V System)
- ◆ 88V-132V (For 110V System)

### 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					
	Voltage	AC 150V-250V or 88V-132V					
	Frequency	50Hz/60Hz					
Output	Voltage	AC 220V ±3% or 110V ±3% (230V/240V or 120V/127V Optional) / customized					
	Capacity	400W	800W	1200W	1600W	2400W	4000W
	Frequency	50Hz/60Hz					
Protection	Low voltage	184V±4V or 92V±4V					
	Over voltage	246V±4V or 123V±4V					
	Time Delay	5s / 255s selectable					
	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℃ to 40℃					
	Humidity	20% to 90%					

Specification		8000VA	10000VA	12KVA	10000VA (cabinet)	15000VA (cabinet)	20000VA (cabinet)	30000VA (cabinet)
Input	Phase	Single phase						
	Voltage	AC 150V-250V or 88V-132V				176V-264V		
	Frequency	50Hz/60Hz						
Output	Voltage	AC 220V ±3% or 110V ±3% (230V/240V or 120V/127V Optional) / customized						
	Capacity	6400W	8000W	9600W	80000W	12000W	16000W	24000W
	Frequency	50Hz/60Hz						
Protection	Low voltage	184V±4V or 92V±4V						
	Over voltage	246V±4V or 123V±4V						
	Time Delay	5s / 255s selectable						
	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℃ to 40℃						
	Humidity	20% to 90%						

## • Product Appearance

### PRO C



500VA



1000VA/1500VA



2000VA



3000VA



5000VA



8000VA/10000VA/12000VA

### PRO-E



500VA



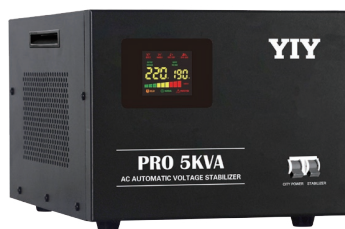
1000VA/1500VA



2000VA



3000VA



5000VA



8000VA/10000VA/12000VA

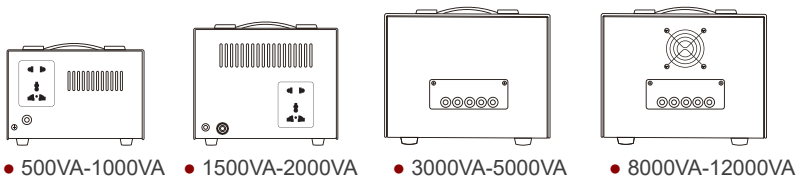


## • Technical Parameter

### PRO-E



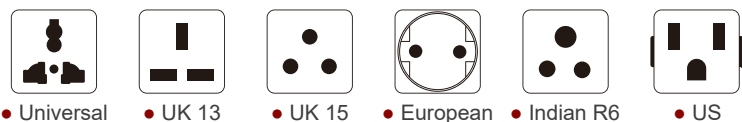
#### ◆ Rear Panel



#### ◆ Display Options



#### ◆ Socket Options



\* More options, please turn to page 38



# TSS

## Wall-mounted Single Phase Servo Motor Type

500VA-12000VA



### Input voltage range:

- ◆ 100V-250V / 150V-250V (For 220V System)
- ◆ 88V-132V / 96V-144V (For 110V System)

### 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				
	Voltage	AC 100V-250V or 88V-132V				
	Frequency	50Hz/60Hz				
Output	Voltage	AC 220V ±3% or 110V ±2% (230V/240V or 120V/127V Optional)				
	Capacity	400W	800W	1200W	1600W	2400W
	Frequency	50Hz/60Hz				
Protection	Low voltage	184V±4V or 92V±4V				
	Over voltage	246V±4V or 123V±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	
Efficiency	AC-AC	98%				
Acoustic	Noise level	≤50dB				
Environment	Temperature	-5℃ to 40℃				
	Humidity	20% to 90%				

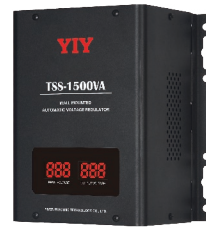
Specification		5000VA	8000VA	10000VA	12000VA
Input	Phase	Single phase			
	Voltage	AC 150V-250V or 88V-132V			
	Frequency	50Hz/60Hz			
Output	Voltage	AC 220V ±2% or 110V ±2% (230V/240V or 120V/127V Optional)			
	Capacity	4000W	6400W	8000W	9600W
	Frequency	50Hz/60Hz			
Protection	Low voltage	184V±4V or 92V±4V			
	Over voltage	246V±4V or 123V±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℃ to 40℃			
	Humidity	20% to 90%			



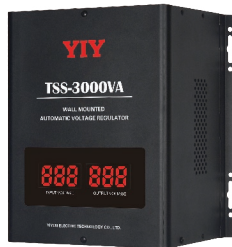
## • Product Appearance



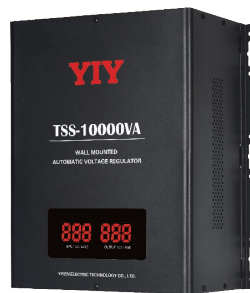
500VA/1000VA



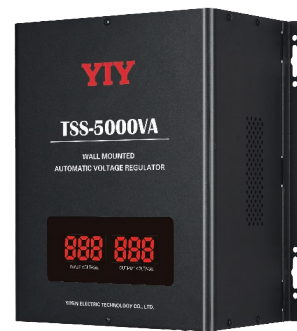
1500VA/1000VA



3000VA

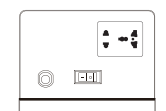


5000VA

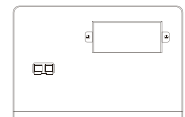


8000VA/10000VA/12000VA

### ◆ 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

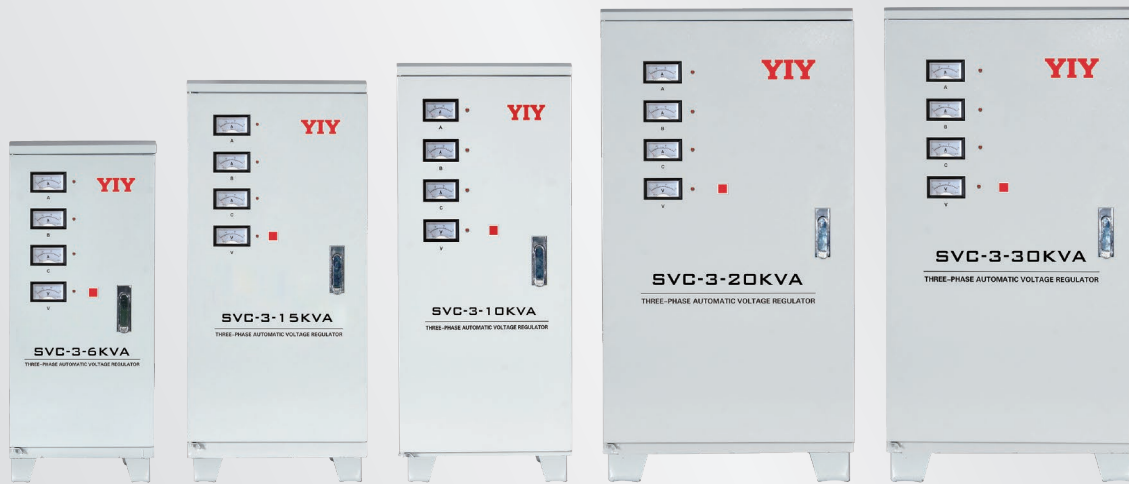
\* More options, please turn to page 38



# 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 between three phases
- ◆ 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	304V-456V / 278V-433V or 152V-228V / 166V-249V / 173V-263V					
	Frequency	50Hz/60Hz					
Output	Voltage	AC 380V ±3% or 220V ±3% (230V/240V or 120V/127V Optional) / customized					
	Capacity	1200W	2400W	3600W	4800W	7200W	12000W
	Frequency	50Hz/60Hz					
Protection	Low voltage	318V±7V or 159V±7V					
	Over voltage	426V±7V or 213V±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	304V-456V / 278V-433V or 152V-228V / 166V-249V / 173V-263V			304V-456V			
	Frequency	50Hz/60Hz						
Output	Voltage	AC 380V ±3% or 190V ±3% (208V/220V Optional)/ customized						
	Capacity	16000W	24000W	36000W	40000W	48000W	60000W	80000W
	Frequency	50Hz/60Hz						
Protection	Low voltage	318V±7V or 159V±7V						
	Over voltage	426V±7V or 213V±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			
Efficiency	AC-AC	98%						
Acoustic	Noise level	≤50dB						
Environment	Temperature	-5℃ to 40℃						
	Humidity	20% to 90%						



### • Product Appearance

#### SVC-3



6KVA/9KVA



15KVA



20KVA/30KVA



45KVA/50KVA/60KVA/75KVA



100KVA

#### ◆ Display Options



• LED display



• Analog display

#### Internal Structure



# 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 between three phases
- ◆ Overload protection (on PCB)  $\geq 120\%$
- ◆ Colorful LED display





### • Technical Parameter

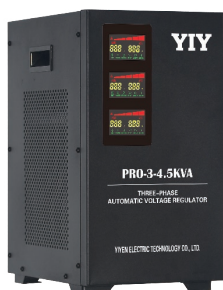
Specification		1.5KVA	3KVA	4.5KVA	6KVA	9KVA	15KVA
Input	Phase	3-phase 4-wire(Can be customized 3-phase 3-wire)					
	Voltage	304V-456V / 278V-433V or 152V-228V / 166V-249V / 173V-263V					
	Frequency	50Hz/60Hz					
Output	Voltage	AC 380V ±3% or 190V ±2% (208V/220V Optional) / customized					
	Capacity	1200W	2400W	3600W	4800W	7200W	12000W
	Frequency	50Hz/60Hz					
Protection	Low voltage	318V±7V or 159V±7V					
	Over voltage	426V±7V or 213V±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℃ to 40℃					
	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	304V-456V / 278V-433V or 152V-228V / 166V-249V / 173V-263V			304V-456V			
	Frequency	50Hz/60Hz						
Output	Voltage	AC 380V ±2% or 190V ±3% (208V/220V Optional)/ customized						
	Capacity	16000W	24000W	36000W	40000W	48000W	60000W	80000W
	Frequency	50Hz/60Hz						
Protection	Low voltage	318V±7V or 159V±7V						
	Over voltage	426V±7V or 213V±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			
Efficiency	AC-AC	98%						
Acoustic	Noise level	≤50dB						
Environment	Temperature	-5℃ to 40℃						
	Humidity	20% to 90%						

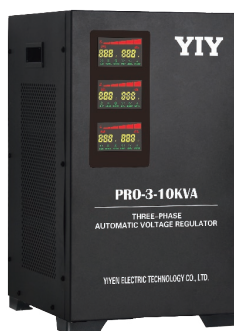


### • Product Appearance

#### PRO-3



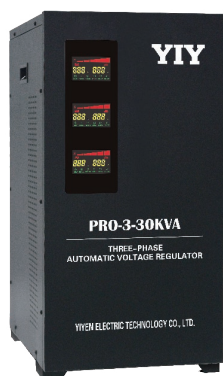
1.5KVA/3KVA/4KVA



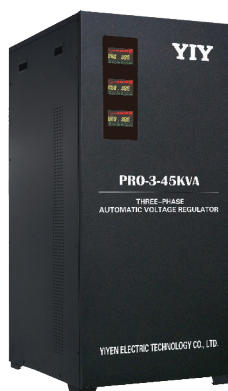
6KVA/9KVA



15KVA



20/30KVA



45KVA/50KVA/60KVA/75KVA



100KVA

#### ◆ Display Options

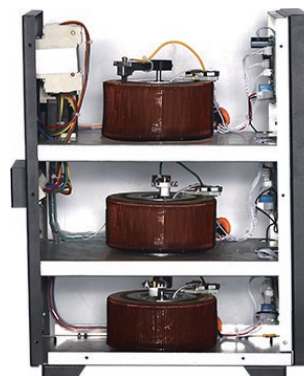


• D



• LED display

#### Internal Structure



# AVR

## Single Phase Relay Type

500VA-20000VA



### Input voltage range:

- ◆ 70V-270V / 90V-270V / 140V-260V (For 220V System)
- ◆ 88V-132V / 96V-144V (For 110V System)

### Features:

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



### • Technical Parameter

Specification		500VA	1000VA	1500VA	2000VA	3000VA
Input	Phase	Single phase				
	Voltage	70V-270V/ 90V-270V / 140V-260V or 88V-132V / 96V-144V				
	Frequency	50Hz/60Hz				
Output	Response	60ms				
	Voltage time	AC 220V ±8%~10% or 110V ±8%~10% (230V/240V or 120V/127V Optional)				
	Capacity	400W	800W	1200W	1600W	2400W
	Frequency	50Hz/60Hz				
Protection	Low voltage	184V±4V or 92V±4V				
	Over voltage	246V±4V or 123V±4V				
	Time Delay	5s / 255s Selectable				
	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℃ to 40℃				
	Humidity	20% to 90%				

Specification		5000VA	8000VA	10000VA	12000VA	15000VA (cabinet)	20000VA (cabinet)
Input	Phase	Single phase					
	Voltage	70V-270V/ 90V-270V / 140V-260V 88V-132V / 96V-144V or				AC 90V~270V/125V~270V/140V~260V	
	Frequency	50Hz/60Hz					
Output	Response	60ms					
	Voltage time	AC 220V ±8%~10% or 110V ±8%~10% (230V/240V or 120V/127V Optional)				AC 220V ±8%~10% (230V/240VOptional)	
	Capacity	4000W	5600W	8000W	9600W	12000W	16000W
	Frequency	50Hz/60Hz					
	Low voltage	184V±4V or 92V±4V					
Protection	Over voltage	246V±4V or 123V±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)		565*390*305	455*390*305			390*390*495	390*330*605
Efficiency	AC-AC	95%					
Acoustic	Noise level	≤50dB					
Environment	Temperature	-5℃ to 40℃					
	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

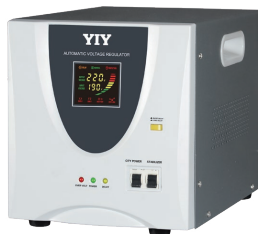
\*Case color can be customized



500VA/1000VA



1500VA/2000VA



3000VA/5000VA



8000VA/10000VA/  
12000VA

#### AVR F

\*Case color can be customized



500VA



1000VA/1500VA



3000VA/5000VA



8000VA/10000VA/  
12000VA



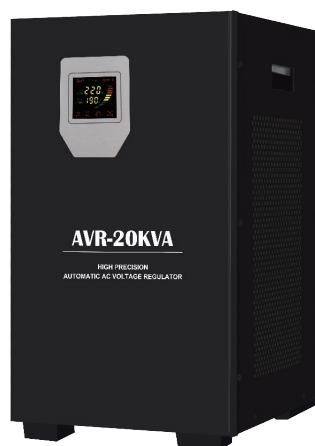


### • Product Appearance

#### AVR-Cabinet



15000VA



20000VA

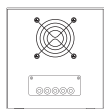
#### ◆ Bottom Panel



• 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 38

# TRS

## Wall Mounted Single Phase Relay Type

500VA-20000VA



### Input voltage range:

- ◆ 70V-270V / 90V-270V / 140V-260V (For 220V System)
- ◆ 88V-132V / 96V-144V (For 110V System)

### 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
- ◆ Dual Over load Protection (Fuse/MCB+MCU)
- ◆ Super fast response time  $\leq 60\text{ms}$



### • Technical Parameter

Specification		500VA	1000VA	1500VA	2000VA	3000VA
Input	Phase	Single phase				
	Voltage	70V-270V/ 90V-270V / 140V-260V or 88V-132V / 96V-144V				
	Frequency	50Hz/60Hz				
Output	Response	60ms				
	Voltage time	AC 220V ±8%~10% or 110V ±8%~10% (230V/240V or 120V/127V Optional)				
	Capacity	400W	800W	1200W	1600W	2400W
	Frequency	50Hz/60Hz				
Protection	Low voltage	184V±4V or 92V±4V				
	Over voltage	246V±4V or 123V±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℃ to 40℃				
	Humidity	20% to 90%				

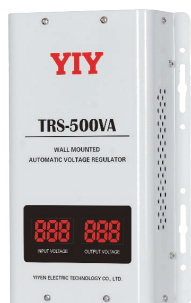
Specification		5000VA	8000VA	10000VA	12000VA	15000VA (cabinet)	20000VA (cabinet)
Input	Phase	Single phase					
	Voltage	70V-270V/ 90V-270V / 140V-260V 88V-132V / 96V-144V			AC 90V~270V/125V~270V/140V~260V		
	Frequency	50Hz/60Hz					
Output	Response	60ms					
	Voltage time	AC 220V ±8%~10% or 110V ±8%~10% (230V/240V or 120V/127V Optional)			AC 220V ±8%~10%(230V/240V Optional)		
	Capacity	4000W	6400W	8000W	9600W	12000W	16000W
	Frequency	50Hz/60Hz					
	Low voltage	184V±4V or 92V±4V					
Protection	Over voltage	246V±4V or 123V±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		
Efficiency	AC-AC	95%					
Acoustic	Noise level	≤50dB					
Environment	Temperature	-5℃ to 40℃					
	Humidity	20% to 90%					



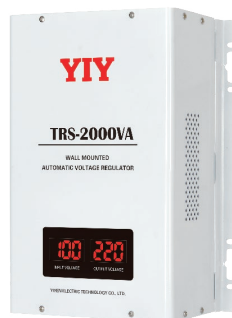
## • Product Appearance

### AVR B

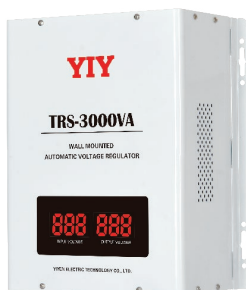
\*Case color can be customized



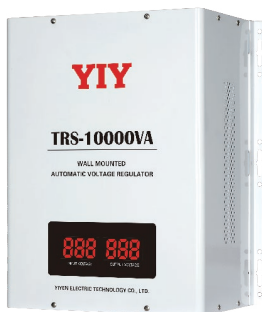
500VA/1000VA



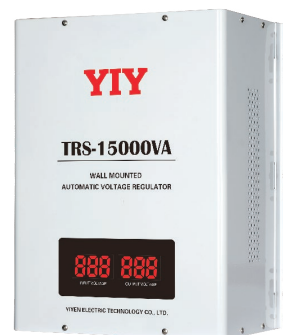
1500VA/2000VA



3000VA/5000VA

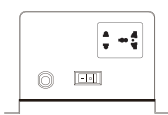


8000VA/10000VA/12000VA

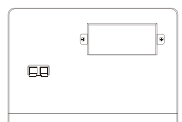


15000VA/20000VA

### ◆ 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

# PR

## Portable Single Phase Relay Type

500VA-2000VA



### Input voltage range:

- ◆ 125V~270V (For 220V System)
- ◆ 88V-132V (For 110V System)

### 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 or 88V-132V			
	Frequency	50Hz/60Hz			
Output	Voltage	AC 220V $\pm 8\%$ or 110V $\pm 8\%$ (120V/127V Optional)			
	Capacity	250W	500W	750W	1000W
	Frequency	50Hz/60Hz			
Protection	Low voltage	184V $\pm 5\%$ or 92V $\pm 5\%$			
	Over voltage	246V $\pm 5\%$ or 123V $\pm 5\%$			
	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	$\leq 50\text{dB}$			
Environment	Temperature	$-5^{\circ}\text{C}$ to $40^{\circ}\text{C}$			
	Humidity	20% to 90%			



\*Plugs and sockets can be customized to other specifications.

### • Product Appearance



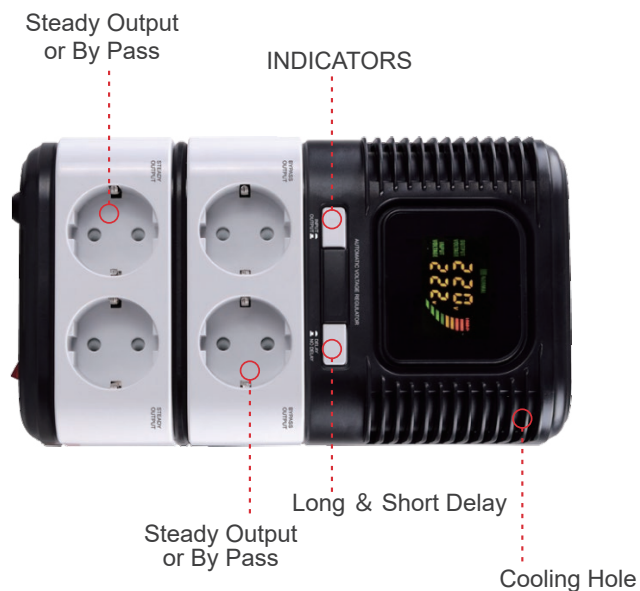
### • Product Dominance

#### For LED Display Model

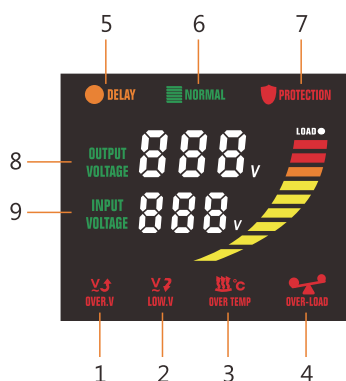
Normal Mode	Yellow LED	Green LED	Green LED
Short Delay Mode	Flashing 1s		
Long Delay Mode	Flashing 5s		
Normal		Lighting	
Under Low Loss Point	Flashing	Lighting	
Over High Loss Point		Lighting	Lighting
Over Temp		Lighting	Flashing 2s
Load $\geq$ 110%		Lighting	Flashing 1s
Load $\geq$ 120%	Flashing	Lighting	Lighting
Load $\geq$ 150%	Flashing	Lighting	Lighting
Under Voltage Protection	Flashing 2s	Flashing 2s	Flashing 2s
Over Voltage Protection	Flashing 1s	Flashing 1s	Flashing 1s

Delay Display	Count down from "5" or "255"
High input Display	Just Display "H"
Low input Display	Just Display "L"
Over Temp Display	Just Display "O" "H" "F"
High Output Display	Just Display "O" "H" "V"
Low Output Display	Just Display "O" "L" "V"
120% > Load > 110% Display	Just Display "O" & "L"
150% Load Display	Just Display "O" "L" "F"
Start Display	Just Display "HELLO", from right to left
Output Display	Just Display "out" first, then "Number"
Input Display	Just Display "in" first, then "Number"
Short Delay Mode	Sounding every 1Secs
Long Delay Mode	Sounding every 5Secs
Overload Mode	Sounding every 0.5Secs
Over/Under Voltage Mode	Sounding every 3Secs
Under Frequency Mode	Sounding every 2Secs
Over Temperature	Sounding every 4Secs
Fault Mode	Sounding Continuous

## • Product Appearance



\*Plugs and sockets can be customized to other specifications.



1.O/P Voltage Above high limit	6. Normal
2.O/P Voltage Under low limit	7. Protection (Fault Mode)
3.Over Temperature	8.Output Voltage
4. Overload	9.Protection (Fault Mode)
5. Output Voltage	10.Fault Mode
Short Delay Mode	Sounding every 1 Secs
Long Delay Mode	Sounding every 5 Secs
Overload Mode	Sounding every 0.5 Secs
Over/Under Voltage Mode	Sounding every 3 Secs
Under Frequency Mode	Sounding every 2 Secs
Over Temperature	Sounding every 4 Secs
Fault Mode	Sounding Continuous

# SBW/SBW-F

## Three Phase Servo Motor Automatic Voltage Regulator

50KVA-3000KVA



**SBW** 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								
	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/3-6 min Selectable								
	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℃ to +45℃								
	Humidity	20% to 90%								

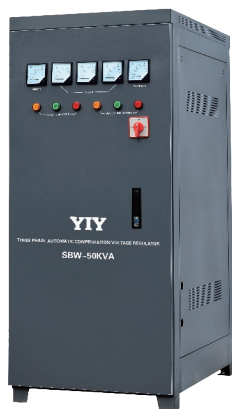
Specification		400KVA	500KVA	600KVA	800KVA	1000KVA	1200KVA	1500KVA	3000KVA
Input	Phase	3-phase 4-wire							
	Voltage	AC 304V-456V							
	Frequency	50Hz/60Hz							
Output	Voltage	AC 380V ±3%							
	Capacity	320KW	400KW	480KW	640KW	800KW	960KW	1200KW	1600KW
	Frequency	50Hz/60Hz							
Protection	Low voltage	318V ±7V							
	Over voltage	426V±7V							
	Time Delay	3-6s/3-6 min Selectable							
	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℃ to +45℃							
	Humidity	20% to 90%							





### • Product Appearance

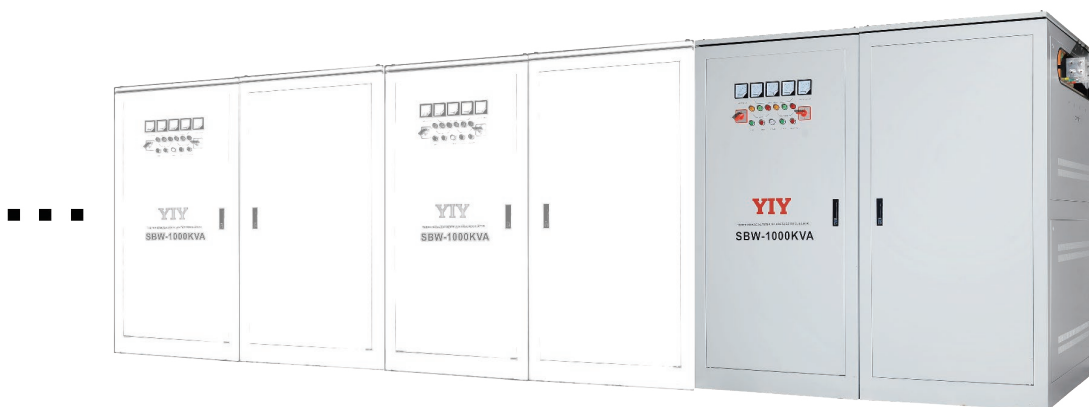
#### SBW



50KVA~300KVA



350KVA~600KVA



800KVA~3000VA

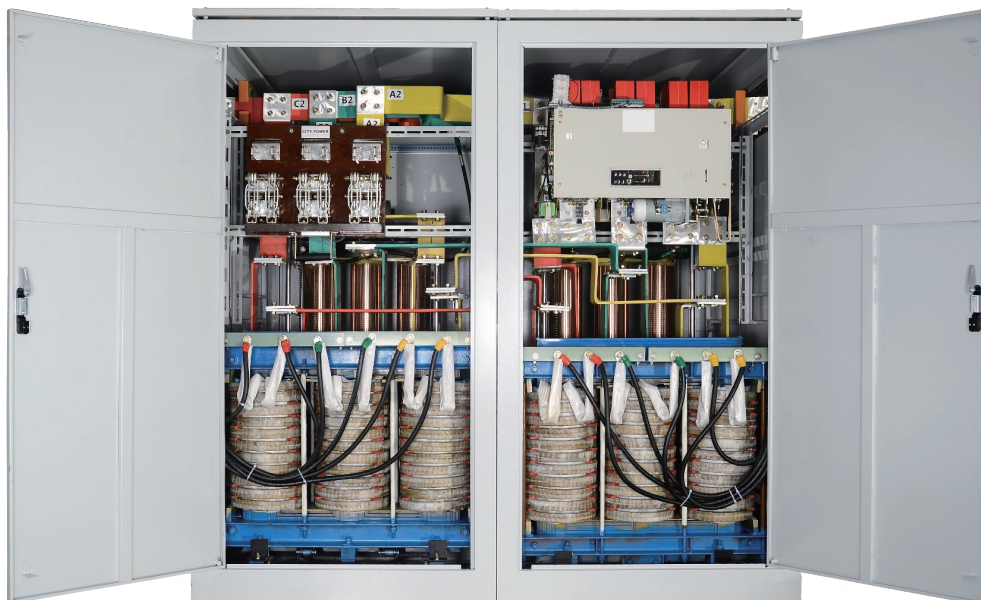
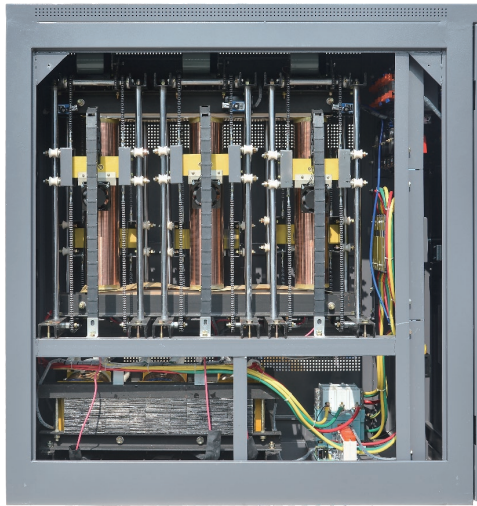
\*800KVA/1000KVA/1200KVA:Shell\*2. 1500KVA:Shell\*3 3000KVA:Shell\*6

#### SBW-F





### • Internal Structure

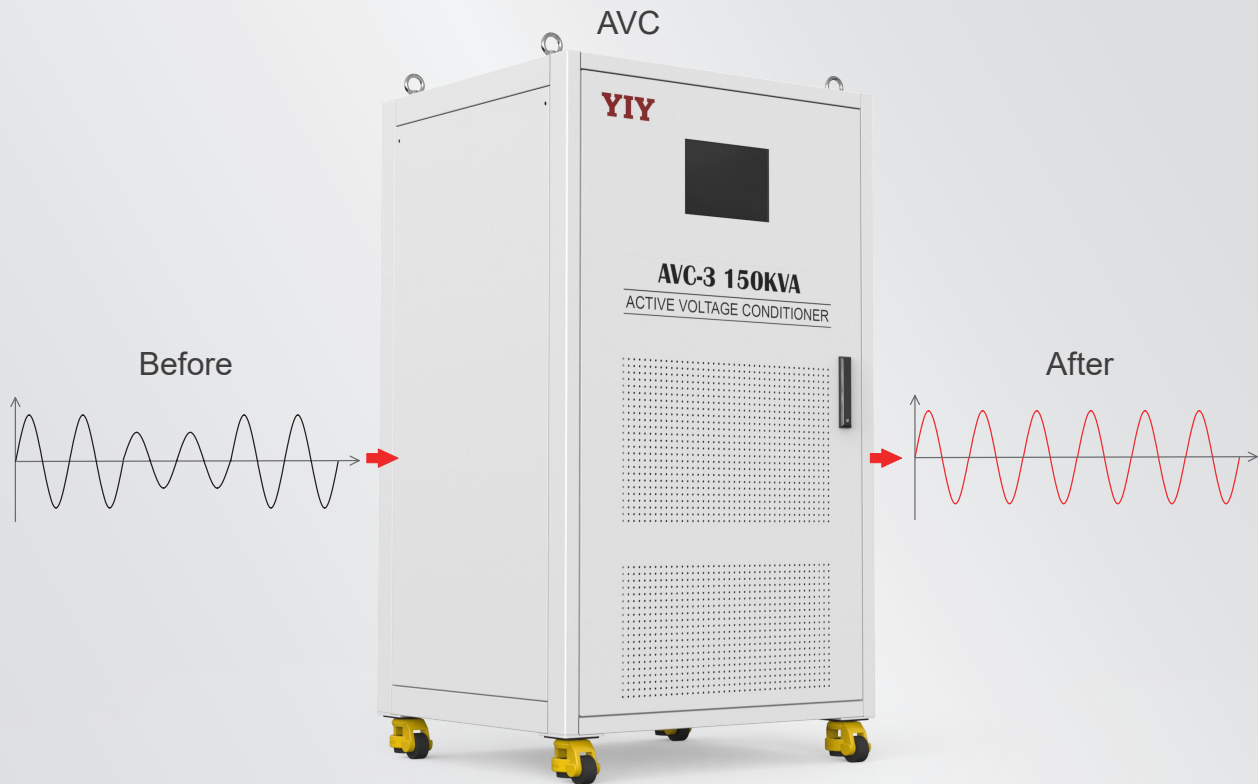


\*Different specifications have different layouts

# AVC

## IGBT Type Three Phase AVR

Active Voltage Conditioner



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.

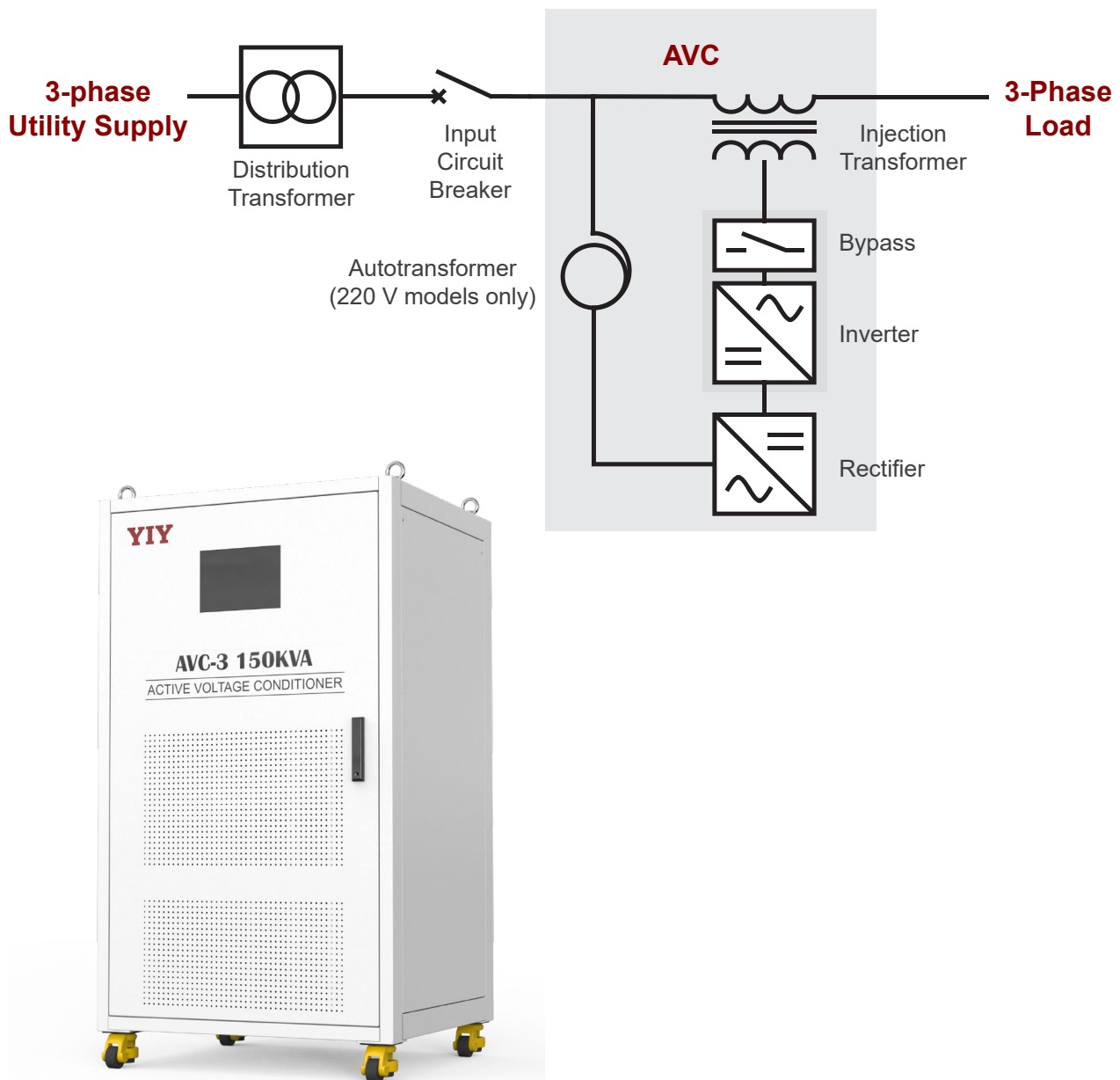


## • Working Principle

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.

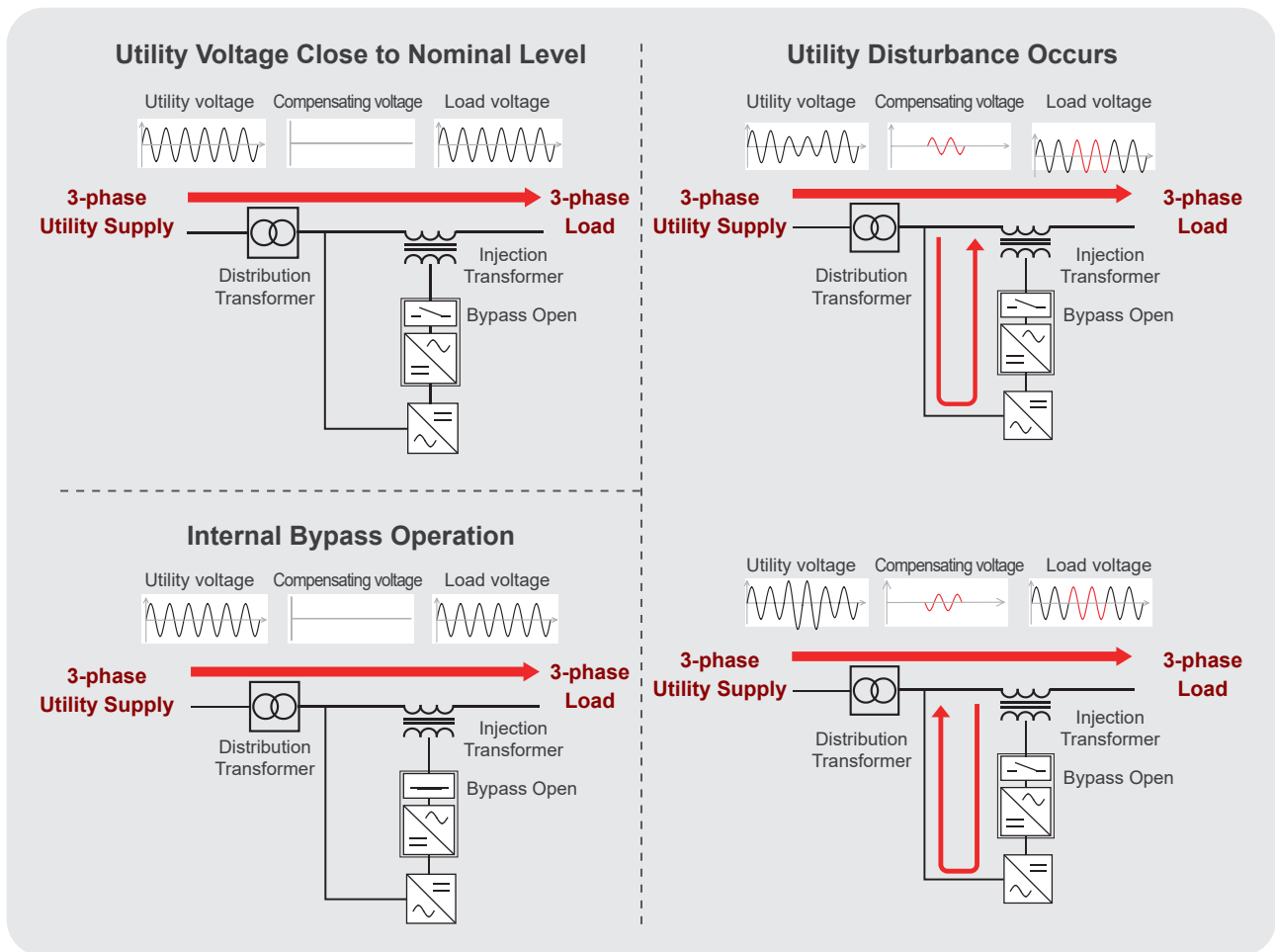


## • Technical Parameter

Input		
	Single Phase	Three Phase
Power Range	15KVA-50KVA	45KVA-150KVA,200KVA-500KVA
Nominal Voltage	220/230VAC	380/400VAC
Rated Frequency	50Hz/60Hz	
Wiring system	1Phase, 2Wire, +Earth	3 Phass+Neutral(4-Wire)
Output		
Voltage	Match The Rated Input Voltage	
	Input Voltage ±20% Range, Continuous Voltage Regulation With Accuracy ±1%	
Over Load	Load >100%, Automatically switch into bypass mode	
Performance		
Efficiency	>95%	
Sag Compensation Response	>250us	
Voltage Regulation Accuracy	0.1V	
Continuous Regulation Range	-40%~-+20%	
Sag Compensation Capability	-30% Of The Rated Input Voltage, 90% Of The Rated Output Voltage Compensation Continuous.	
	-40% Of The Rated Input Voltage, 80% Of The Rated Output Voltage Compensation, Continuous.	
Bypass		
Capacity	100% Typical Rating (KVA)	
Maximum Overload Capacity (Bypass)	120% 60S	
	150% 15S	
	300% 1S	
System Performance		
Insulation	Heat Resistance Grade: Class H	
Frequency	50Hz/60Hz	
Operating Temperature Range	0~45℃	
Temperature Derating	When The Temperature Exceeds 40 ° C, The Derating Will Decrease By 2% When 1 Degree Increases, Up To 50 °C.	
Working Altitude	When The Value Exceeds 2000M, The Derating Will Decrease By 1% When Every 100M Increases.	
Noise	65dB	
Mechanical Characteristics		
IP Rating	IP20 (Side Ventilation)	
Incoming Mode	Upper Line	
User Interface		
User Display Interface	7-Inch Color Touch Screen With Multiple Languages.	
Touch Panel	All Parameter Control, System Event Log, Voltage Event Log	
Event Recording And Data Recording	Have	
Communication Protocol	RS485 CAN Modbus Tcp	
Standards And Certification		
Quality System	ISO9001	
Environment System	ISO14001	
Testing Certification	CE	
Safety Certification	IEC 62103	
EMC	IEC 61000-6-2	
Performance Standard	IEC 61000-4-3,4	



## • Operational Detail



## • Applications

### • Electronics industry



### • Continuous process



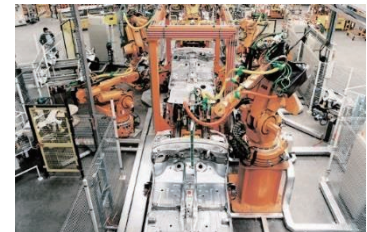
### • Food and beverage



### • Pharmaceutical



### • Automotive



### • Medical



# CVCF

## IGBT Type Single Phase AVR

Voltage and Frequency Stabilisers



### Input voltage range:

- ◆ 100-270VAC, 1Phase, 2Wire, +Earth

### Input frequency range:

- ◆ 35-70Hz

### Features:

- ◆ Correction time 1-1.5 cycles
- ◆ Output Voltage Regulation 210V-250V
- ◆ Output accuracy +/-1%
- ◆ Output wave form distortion THD<3
- ◆ Effect of Power factor PF>0.99
- ◆ Multiple protection functions



### • Technical Parameter

Parameters		5KVA	10KVA
Input	Nominal voltage Rating	230VAC 1Phase, 2Wire, +Earth	
	Voltage Regulation Range	100V-270V(-55%~+23%)Rated voltage (can be customized)	
	Rated Current	23A	46A
	Frequency Regulation Range	50Hz/60Hz±15Hz (can be customized)	
Output Voltage	Voltage Range	220V±0.5%	
	Voltage Regulation Mode	Stepless &Contactless	
	Frequency Range	50Hz ±0.5Hz	
	Current-Harmonic Distortion Rate	≤2%	
	Voltage-Harmonic Distortion Rate	≤2%	
	Load Stability	≤1%	
	Harmonic Distortion	≤2%	
	Efficiency	≥95%/Max 97%	
	Response Time	≤10ms	
	Over Load Protection	≥120%for5 times, ≥150%current-limiting&derate	
	Over Heat Protection	≥90°C (IGBT)	
	Time Delay	5 seconds(default)	
Circuit Mode		IGBT/PWM Pulse width Modulation	
Protection		*Power Factor &Temperature &Alarm *Input Over /Under Voltage /Frequency abnormal *Output Over/Under Voltage *Input Overcurrent *Output Overload,etc	
Display		*Output Voltage &Load Condition *Input Voltage Current *Frequency *Time Delay	
Others	Cooling Method	Forced Air	
	Noise	<65dB	
	Pollution Class	Under Class II	
	IP Class	IP20	
	Installation	Rack/Wall Mount	
	Working Temperature	-20°C ~ 45°C	
	Storage &Transportation Temperature	40°C ~ 70°C	
	Working Humidity	≤90%(40°C±2°C)	
	Storage &Transportation Humidity	≤95%(40°C±2°C)	
	Sea Level	≤2000 meters	
	Mechanical Strength	NB/T 33001	
	Product Size	501*328*128.5 mm	580*358*128.5 mm
	Shipping Size	590*440*240	670*470*240
	Inverter Weight	10KG	12KG
	Shipping Weight	12KG	14KG

# 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

### Output 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	

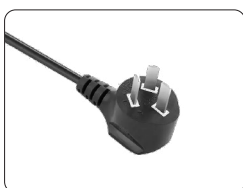
Specification & Capacity	Max output capacity KVA	Rated input voltage V	Rated output voltage V	Max output current A	Overall size (W*D*L)mm	TQY(PCI)	Package size/set (W*D*L)mm	Net weight kg	Gross werght kg	no of phase
TDGC <sub>2</sub> -0.2	0.2	220V	0-250V	0.8	105x130x130	12	380x347X350	25	26.5	1
TDGC <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	



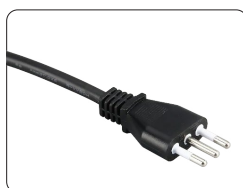
EY-01



EY-02



EY-08



EY-09



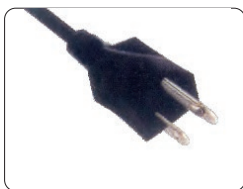
EY-30



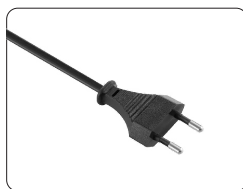
EY-20



EY-24



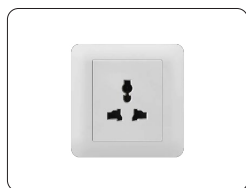
EY-28



EY-29



EY-30



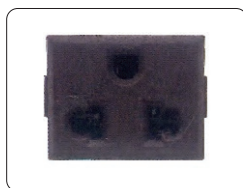
EYE-01



EYE-06



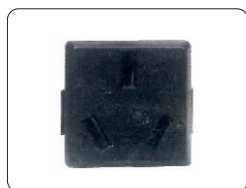
EYE-09



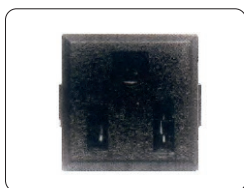
EYE-11



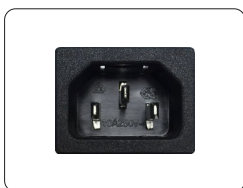
EYE-20



EYE-16



EYE-13



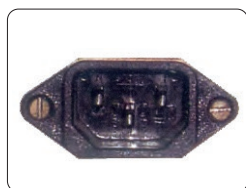
EYE-14



EYE-18



EYE-19



EYE-21



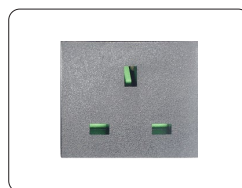
EYE-22



EYE-24



EYE-25



EYE-25



• A



• B



• C



• D



• LED display



• Analog display



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

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

Tel: +86-577-27772199 27772139

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

Website: [www.yiye.com](http://www.yiye.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 Province, China

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