

# JOHSUN®



## PRODUCT MANUAL POWER SOURCE COLLECTION

JOHSUN TEC ELECTRICAL GROUP CO.,LTD.

**OUR VISION: THE WORLD KNOWS WHAT I DO AND TECHNOLOGY CHANGES LIFE;  
OUR MISSION: CHANGING HUMAN LIFE AND PROMOTING SOCIAL HARMONIOUS DEVELOPMENT;  
OUR CORPORATE CULTURE: LISTEN, SMILE, EXPRESS SINCERELY, PRAISE AND THANKSGIVING;  
OUR SPIRIT: TEAMWORK, INNOVATION, KEEP UP WITH THE TIMES, CREATE BRILLIANCE TOGETHER.**



*JOHSUN 華*

**TECHNOLOGY INNOVATION  
JOHSUN CONVOY**



Johsun Tec Electrical Co., Ltd. is one of the successful & modern manufacturer in high and low voltage complete set and components & power supply field, the company was established in year 2005, It specializes in researching, manufacturing and selling high and low voltage complete set and components & Voltage Stabilizer, Voltage Regulator, Transformer, Battery Charger, Switching Power Supply, Dual-Power Automatic Switch Voltage Protector, Inverter, UPS, Battery, Solar Panels etc, Solar System and New energy Series Products etc.

Depending on its advanced global technology and facilities, Johsun Technology is leading the road of international development, so far the company has gained ISO9001 :2008 and SGS quality standard certificate, the main products have got CCC, CE and SONCAP certificate.

Up to year 2010, Johsun Technology has established the manufacturing base in Wenzhou and Guangzhou City, and will accomplish a new international industrial zone in Jiangxi Province. In the mean time we have built selling distribution in the main big city like Shanghai, Yiwu, Hefei, Guanqzhou and Dongguan. Also Johsun's power products has beening selling to 45 countries and areas like USA, Dubai, Russia, Peru, South Africa and Nigeria, etc.

Offer the reliable power to the whole human being is the business purpose of Johsun Technology, we are steadily going forward to build "johsun" the famous power brand in the world.



# ENTERPRISE HONOR

For many years,  
The staffs of Johsun are building the perfect quality, with unremitting efforts and hard working

With sincere heart, to gain the trust of customer in the future, new chapter is going to open we will keep on following the dream and ideal



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# SERVO MOTOR TYPE VOLTAGE STABILIZER

DESK TYPE SINGLE PHASE AUTOMATIC VOLTAGE REGULATOR  
SVC/TND<sub>2</sub> SERIES SERVO MOTOR TYPE CPU CONTROL

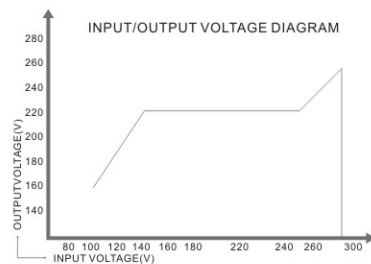
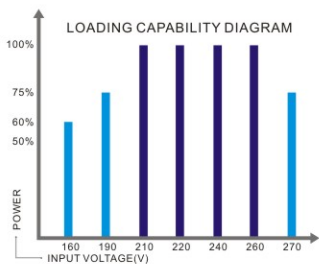


## Performance

Single-phase input voltage	160V-250V/100V-260V	Frequency	50Hz/60Hz
Single-phase output voltage	0.5KVA-3KVA 220V and 110V 5KVA-30KVA 220V (other voltages customization available)	Adjustable time	<1s( when input voltage has a change of 10%)
		Ambient temperature	-5°C~+40°C
		Waveform distortion	No additional waveform distortion
		Load power factor	0.8
		Dielectric strength	1500V/1min
Accuracy of voltage stabilization	220V±3% 110V±6%	Insulation resistance	≥2MΩ

## Model and spec

Spec(KVA)		Product size D×W×H(cm)	Package size D×W×H(cm)	Qty	Input Range
Single-phase two- wire (desk type)	SVC-3	29×22×24	59.5×36.5×28	2	160-250V
	SVC-5	46×24×19	51.5×30×25	1	160-250V
	SVC-8	57×27×24	58×33×27	1	160-250V
	SVC-10	57×27×24	58×33×27	1	160-250V



OVER VOLTAGE  
PROTECTION



DELAY TIME



LOW VOLTAGE  
PROTECTION



OVER TEMP  
PROTECTION

# SERVO MOTOR TYPE VOLTAGE STABILIZER

## SVC-C AUTOMATIC VOLTAGE REGULATOR(LCD/LED METER DISPLAY)

### CPU CONTROL

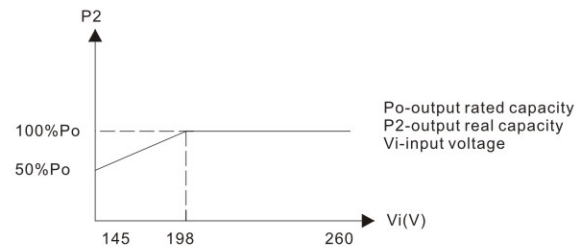


#### Features

- 1.Servo motor control
- 2.Wide range voltage regulate
- 3.Automatic voltage regulation
- 4.Display:LCD/LED meter display
- 5.Protection functions: over voltage, overload,over temperature, low voltage, time delay
- 6.Waveform distortion: no additional waveform distortion
- 7.Dielectric strength: 1500V/ 1min
- 8.Insulation resistance:  $\geq 2M\Omega$

#### Specifications

Input voltage	140-260V AC (other voltages customization available)
Input frequency	50/60Hz
Output voltage	220V AC/ 110V AC
Output precision	220V +/-3%, 110V +/-6%
Time delay	3's short time, 180's long time
Load power factor	0.8
Phase	single phase
Operating temperature	0~40°C
Storage temperature	-15°C~45°C
Operating relative humidity	10%RH~102%RH
Customize option for specification and availability please contact TAILEI	



#### Dimension & Weight

MODEL	QTY/CTN	MEAS(cm)	G.W.(kg)	N.W.(kg)	CONTAINER20 (PCS)
SVC-C 500VA	4	42.5*25.5*36	16.5	14.5	2868
SVC-C 1KVA	4	50*27.5*39.5	19.5	18	2070
SVC-C 1.5KVA	4	50*27.5*39.5	23.5	22	2070
SVC-C 2KVA	2	60*33*25.5	17.8	16	1100
SVC-C 3KVA	2	57*37.5*29.5	22	20	880
SVC-C 5KVA	1	49*40*28.5	17.5	15	500
SVC-C 8KVA	1	49*40*28.5	22.5	21	500
SVC-C 10KVA	1	49*40*28.5	25.5	24	500

Overload capability	Overload time min
20%	60
40%	30
60%	4



OVER VOLTAGE PROTECTION



DELAY TIME



LOW VOLTAGE PROTECTION



OVER TEMP PROTECTION



# SERVO MOTOR TYPE VOLTAGE STABILIZER

DESK TYPE SINGLE PHASE AUTOMATIC VOLTAGE REGULATOR  
SVC/TND<sub>1</sub> SERIES SERVO MOTOR TYPE WITH POINTER TABLE DISPLAY



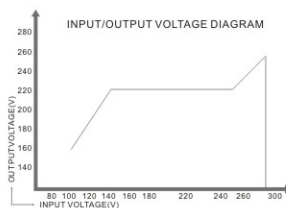
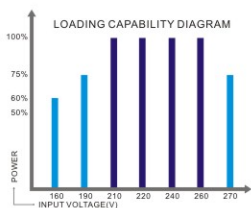
## Performance

Single-phase input voltage	160V-250V/100V-260V	Frequency	50Hz/60Hz
Single-phase output voltage	0.5KVA-3KVA 220V and 110V 5KVA-30KVA 220V (other voltages customization available)	Adjustable time	<1s( when input voltage has a change of 10%)
		Ambient temperature	-5°C~+40°C
		Waveform distortion	No additional waveform distortion
		Load power factor	0.8
		Dielectric strength	1500V/1min
Accuracy of voltage stabilization	220V±3% 110V±6%	Insulation resistance	≥2MΩ



## Model and spec

	Spec(KVA)	Product size D×W×H(cm)	Package size D×W×H(cm)	Qty	Input Range
Single-phase two-wire (desk type)	SVC-0.5	17×19×13	41.5×24.5×34	4	160-250V
	SVC-1	20×22×16	49.5×27.5×39.5	4	160-250V
	SVC-1.5	20×22×16	49.5×27.5×39.5	4	160-250V
	SVC-2	26×24×19	60×35.5×24.5	2	160-250V
	SVC-3	29×22×24	59.5×36.5×28	2	160-250V
	SVC-5	46×24×19	51.5×30×25	1	160-250V
	SVC-8	57×27×24	58×33×27	1	160-250V
	SVC-10	57×27×24	58×33×27	1	160-250V



OVER VOLTAGE  
PROTECTION



DELAY TIME



LOW VOLTAGE  
PROTECTION



OVER TEMP  
PROTECTION



# SERVO MOTOR TYPE VOLTAGE STABILIZER

VERTICAL TYPE SINGLE PHASE AUTOMATIC VOLTAGE REGULATOR  
SVC/TND VERTICAL TYPE SERVO MOTOR TYPE CPU CONTROL

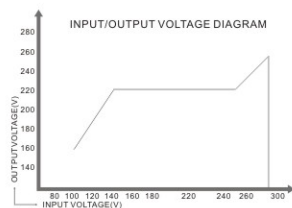
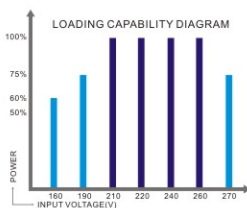


## Performance

Single-phase input voltage	160V-250V/100V-260V	Frequency	50Hz/60Hz
Single-phase output voltage	0.5KVA-3KVA 220V and 110V 5KVA-30KVA 220V (other voltages customization available)	Adjustable time	<1s( when input voltage has a change of 10%)
		Ambient temperature	-5°C~+40°C
		Waveform distortion	No additional waveform distortion
		Load power factor	0.8
		Dielectric strength	1500V/1min
Accuracy of voltage stabilization	220V±3% 110V±6%	Insulation resistance	≥2MΩ

## Model and spec

Spec(KVA)	Product size D×W×H(cm)	Package size D×W×H(cm)	Qty	Input Range	
Single-phase two-wire (desk type)	SVC-5	28×31×44.5	36×40×53	1	160-250V
	SVC-8	33×33×56	39×42×60.5	1	160-250V
	SVC-10	33×33×56	39×42×60.5	1	160-250V
	SVC-15	35×36.5×64.5	42.5×45×72	1	160-250V
	SVC-20	35.5×39×77	43×47×84	1	160-250V
	SVC-30	42×46×83	49×52.5×91.5	1	160-250V



OVER VOLTAGE PROTECTION



DELAY TIME



LOW VOLTAGE PROTECTION



OVER TEMP PROTECTION

# SERVO MOTOR TYPE VOLTAGE STABILIZER

THREE PHASE FULL-AUTOMATIC AC VOLTAGE REGULATOR

SVC THREE PHASE VERTICAL TYPE SERVO MOTOR TYPE CPU CONTROL



## Performance

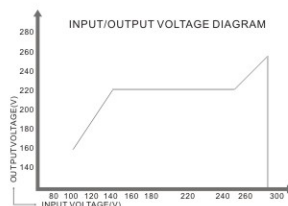
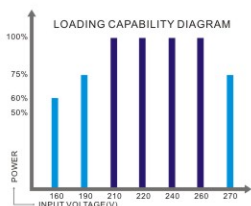
Accuracy of voltage stabilization	380V±3%	Frequency	50Hz/60Hz
Three-phase input voltage	Phase voltage 160V-250V Wire voltage 277V-430V (other voltages customization available)	Adjustable time	<1s( when input voltage has a change of 10%)
		Ambient temperature	-5°C~+40°C
		Waveform distortion	No additional waveform distortion
Three-phase output voltage	Phase voltage 220V Wire voltage 380V	Load power factor	0.8
		Dielectric strength	1500V/1min
		Insulation resistance	≥2MΩ



## Model and spec

Spec(KVA)	Product size D×W×H(cm)	Package size D×W×H(cm)	Qty	
Three-phase four-wire	SVC-3	42×38×19	60×43×26	1
	SVC-4.5	42×38×19	60×43×26	1
	SVC-6	29.5×32×69	38.5×43×76	1
	SVC-9	35×33×78	42×42×86	1
	SVC-15	43×38×73	45.5×44×94	1
	SVC-20	43×40×80	53×50×94.5	1

Spec(KVA)	Product size D×W×H(cm)	Package size D×W×H(cm)	Qty	
Three-phase four-wire	SVC-30	50×41.5×90	62×54×99	1
	SVC-40	45.5×55.5×115	55.5×65.5×125	1
	SVC-50	45.5×55.5×115	55.5×65.5×125	1
	SVC-60	45.5×55.5×115	55.5×65.5×125	1
	SVC-80	83×76×153	95×87×167	1
	SVC-100	83×76×153	95×87×167	1



# SERVO MOTOR TYPE VOLTAGE STABILIZER

THREE PHASE FULL-AUTOMATIC AC VOLTAGE REGULATOR(LCD/LED METER DISPLAY)  
SVC THREE PHASE VERTICAL TYPE SERVO MOTOR TYPE WITH LCD DISPLAY



## Features

- 1.Servo motor control
- 2.Wide range voltage regulation
- 3.Automatic voltage regulation
- 4.Display:LED digital meter display
- 5.Protection functions:overvoltage, overload,over temperature  
low voltage,time delay
- 6.Waveform distortion: no additional waveform distortion
- 7.Dielectric strength: 1500V/ 1min
- 8.Insulation resistance:  $\geq 2M\Omega$

## Specifications

Input voltage	phase voltage 160-250V AC wire voltage 277-430V AC (other voltages customization available)
Input frequency	50/60Hz
Output voltage	phase voltage 220V AC wire voltage 380V AC
Output precision	380V +/-3%
Time delay	3's short time, 180's long time
Load power factor	0.8
Phase	three phase
Operating temperature	0~40℃
Storage temperature	-15℃~45℃
Operating relative humidity	10%RH~102%RH
Customize option for specification and availability please contact TAILEI	



## Dimension & Weight

MODEL	QTY/CTN	MEAS(cm)	G.W.(kg)	N.W.(kg)	CONTAINER20 (PCS)
SVC-3000VA/3	1	38*53*20.5	18	16.5	670
SVC-6000VA/3	1	37*39.5*73	31	28	245
SVC-9000VA/3	1	37*39.5*81	38	35	220
SVC-15000VA/3	1	42.5*42*88	60	54	165
SVC-20000VA/3	1	50.5*44.5*86	82	74	135
SVC-30000VA/3	1	50.5*44.5*86	91	84	135
SVC-45000VA/3	1	74*65*112	182	165	50
SVC-60000VA/3	1	76*68*121	210	185	41
SVC-90000VA/3	1	78*74*132	230	210	35



OVER VOLTAGE PROTECTION



DELAY TIME



LOW VOLTAGE PROTECTION



OVER TEMP PROTECTION

# SERVO MOTOR TYPE VOLTAGE STABILIZER

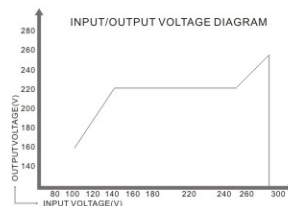
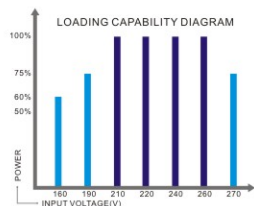
WALL MOUNT SERVO MOTOR CONTROL AC VOLTAGE REGULATOR

TSD/WMS SERVO MOTOR TYPE CPU CONTROL (Air conditioning special USE)



## Performance

Model	TSD-3000VA	TSD-5000VA	TSD-8000VA	TSD-10000VA
Power	3000VA	5000VA	8000VA	10000VA
Technology	Servo Motor control			
LED Intelligent Screen Display	Meter	Output Voltage/Input Voltage		
Protection	Over Voltage	Output voltage $\leq 248 \pm 4v$		
	Over Loading	More than 120%		
	Over Temperature	$120^{\circ}C \pm 10^{\circ}C$		
	Circuit Breaker	Regulator/By-Pass		
Input voltage	160-250VAC/100-260VAC (other voltages customization available)			
Output voltage	220V $\pm 3\%$ Adjustable			
Frequency	50HZ/60HZ			
Phase	Single Phase			
Efficiency	$\geq 95\%$			
Ambient temperature	$-15^{\circ}C^* - 45^{\circ}C$			
Relative humidity	$< 95\%$			
Waveform distortion	No additional wave form distortion			
Insulating resistance	Normally more than $2\Omega$			
Packing size (cm)	42 $\times$ 32 $\times$ 18	49 $\times$ 36 $\times$ 19	49 $\times$ 36 $\times$ 25	49 $\times$ 36 $\times$ 25
Packing	1PCS	1PCS	1PCS	1PCS
Factory Item code	JA0801	JA0802	JA0803	JA0804



OVER VOLTAGE PROTECTION



DELAY TIME



LOW VOLTAGE PROTECTION



OVER TEMP PROTECTION

# SERVO MOTOR TYPE VOLTAGE STABILIZER

## SUPERPOWER COMPENSATION ELECTRICTY VOLTAGE STABILIZER

### SBW SERIES BIG POWER COMPENSATION POWER REGULATOR



#### Main Function

- \* Large capacity, high accuracy
- \* Adopted compensate voltage technology
- \* Wide input voltage range
- \* Over voltage protection
- \* Output voltage three phase auto-balance
- \* High precision of output voltage
- \* With bypass system
- \* Analog, LED, LCD display optional

#### Technical parameter

Product	Requirements	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7	Model 8	Model 9	Model 10	Model 11	Model 12	Model 13	Model 14
		SBW-20KVA	SBW-30KVA	SBW-50KVA	SBW-100KVA	SBW-150KVA	SBW-180KVA	SBW-200KVA	SBW-250KVA	SBW-300KVA	SBW-350KVA	SBW-400KVA	SBW-500KVA	SBW-600KVA	SBW-1000KVA
Input	Phase	Three Phase													
	Voltage	304V-456V(other voltages customization available)													
	Frequency	50Hz/60Hz													
Output	Voltage	380V ±3%													
	Frequency	50Hz/60Hz													
Protection	Low Volt.	318V±7V													
	Over volt.	426V±7V													
	By pass	Yes (MANUAL)													
	Over load/short circuit	Yes													
Packaging	pcs per carton	1													2
	Shipping wt.(KG)	240	280	330	480	780	850	950	1050	1180	1300	1400	1600	1860	2500
	Package dimensions(mm)	660×1480×890			750×970×1625	875×1940×1250			1355×1060×2270			1360×1215×2350			
Efficiency	AC-AC	>95%													
Acoustic	Noise level	≤50dB													
Environmental	Temperature	-50-60 Degree C													
	Humidity	20% to 90%													



OVER VOLTAGE PROTECTION



DELAY TIME



LOW VOLTAGE PROTECTION



OVER TEMP PROTECTION

# RELAY TYPE AC VOLTAGE STABILIZER

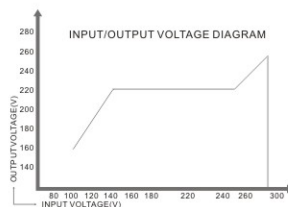
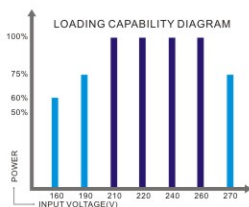
PLASTIC PANEL VOLTAGE REGULATOR

CVR SERIES VOLTAGE REGULATOR WITH CPU CONTROL



## Performance

Model	CVR-0.5KVA	CVR-1KVA	CVR-1.5KVA	CVR-2KVA	CVR-3KVA	CVR-5KVA	CVR-8KVA	CVR-10KVA
Power	0.5KVA	1KVA	1.5KVA	2KVA	3KVA	5KVA	8KVA	10KVA
Technology	Relay Type CPU Control							
LED Intelligent Screen Display	Meter		Output Voltage/Input Voltage					
Protection	Over Voltage		Output voltage $\leq 248\pm 4v$					
	Over Loading							
	Over Temperature		120°C $\pm 10^{\circ}C$					
	Circuit Breaker		Regulator/By-Pass					
Input voltage	160-250VAC/100-260VAC(other voltages customization available)							
Output voltage	220V $\pm 8\%$ Adjustable							
Frequency	50HZ/60HZ							
Phase	Single Phase							
Efficiency	$\geq 95\%$							
Ambient temperature	-15°C* -45°C							
Relative humidity	$< 95\%$							
Waveform distortion	No additional wave form distortion							
Insulating resistance	Normally more than 2 $\Omega$							



OVER VOLTAGE PROTECTION



DELAY TIME



LOW VOLTAGE PROTECTION



OVER TEMP PROTECTION

# RELAY TYPE AC VOLTAGE STABILIZER

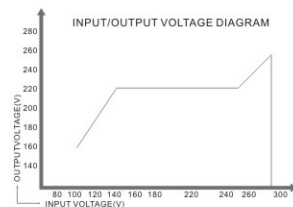
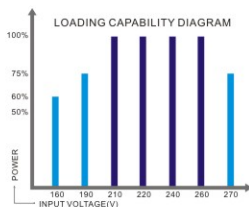
PLASTIC PANEL VOLTAGE REGULATOR

AVS SERIES VOLTAGE REGULATOR WITH CPU CONTROL



## Performance

Model	AVS 500VA	AVS 1000VA	AVS 1500VA	AVS 2000VA	AVS 3000VA	AVS 5000VA
Power	500VA	1000VA	1500VA	2000VA	3000VA	5000VA
Input	Input voltage range 160-250V/120-250V/100-250VAC(other voltages customization available)					
	Frequency 50/60HZ					
Output	Output voltage 220 VAC					
	Output precision $\pm 8\%$					
Efficiency	$>90\%$					
Phase	Single Phase					
Meter display status	Input voltage/Output voltage					
LED display status	Working Green; Indicating power ON/OFF.					
	Delaying Red;indicating delay ON/OFF					
	Unusual Yellow; Indicating if the machine is working regularly					
Environmental	Operating temperature 0~40°C					
	Storage temperature -15°C~45°C					
	Operating relative humidity 10% RH~102%RH; Non-condensing					
Physical	Products size(cm)		22×19×20		25.5×19×20	
	Qty		1			



OVER VOLTAGE PROTECTION



DELAY TIME



LOW VOLTAGE PROTECTION



OVER TEMP PROTECTION

# ACH SERIES RELAY FULLY AUTOMATIC VOTAGE

WALL MOUNT RELAY TYPE CONTROL AC VOLTAGE REGULATOR

ACH SERIES CPU CONTROL VOLTAGE REGULATOR



## Features

1. Relay/microprocessor control(CPU)
2. Wide range voltage regulation
3. Technology: classis series, toroidal transformer, relay type
4. Automatic voltage regulation
5. Display: LED digital display
6. Protection functions: short circuit, overvoltage, over temperature, low voltage
7. Waveform distortion: no additional waveform distortion
7. Dielectric strength: 1500V/ 1min
8. Insulation resistance:  $\geq 2M\Omega$

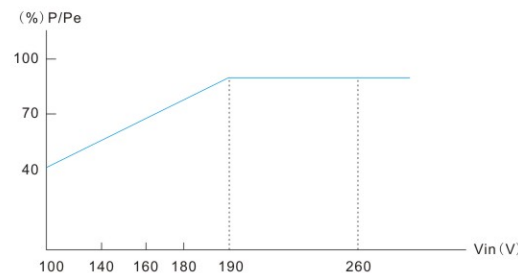
## Specifications

ACH-1000VA/1500VA/2000VA/3000VA/5000VA8000VA/10000VA	
Input voltage	140-260V/100-260V(other voltages customization available)
Input frequency	50/60Hz
Output voltage	220V AC/ 110V AC
Output precision	220V +/-8%, 110V +/-10%
Time delay	5's short time, 180's long time
Efficiency:	>90%
Load power factor	0.8
Phase	single phase
Operating temperature	0~40°C
Storage temperature	-15°C~45°C
Operating relative humidity	10%RH~102%RH
Customize option for specification and availability please contact TAILEI	



## Dimension & Weight

MODEL	QTY/CTN	MEAS(cm)	G.W.(kg)	N.W.(kg)	CONTAINER20 (PCS)
ACH- 500VA	4	40*27*35	14.8	13.8	2900
ACH-1000VA	4	68*31*23	15.66	14.6	2300
ACH-1500VA	4	68*31*23	18.84	17.8	2300
ACH-2000VA	4	68*31*23	20.7	19.7	2300
ACH-3000VA	2	54.5*43*31	19.9	18.8	760
ACH-5000VA	2	54.5*43*31	23.6	22.6	760
ACH-8000VA	1	47.5*28.5*31	16.8	15.8	660
ACH-10000VA	1	47.5*28.5*31	18.6	17.6	660



OVER VOLTAGE PROTECTION



DELAY TIME



LOW VOLTAGE PROTECTION



OVER TEMP PROTECTION



# RELAY TYPE AC VOLTAGE STABILIZER

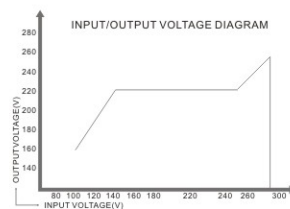
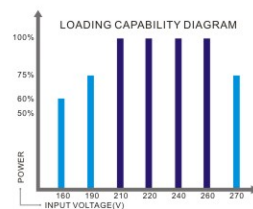
PLASTIC PANEL AUTOMATIC VOLTAGE REGULATOR

AVR CPU CONTROL WITH LED DISPLAY



## Performance

Model	AVR-500VA	AVR-1000VA	AVR-1500VA	AVR-2000VA	AVR-3000VA	AVR-5000VA	AVR-8000VA	AVR-10KVA	
Power	500VA	1000VA	1500VA	2000VA	3000VA	5000VA	8000VA	10KVA	
Input	Input voltage range 160-250V/120-250V/100-250VAC(other voltages customization available)								
	Input frequency 50/60HZ								
Output	Output voltage 220 VAC								
	Output precision $\pm 8\%$								
Efficiency	>90%								
Phase	Single Phase								
Meter display status	Input voltage/Output voltage								
LED display status	Working Green; Indicating power ON/OFF.								
	Delaying Red;indicating delay ON/OFF								
	Unusual Yellow; Indicating if the machine is working regularly								
Environmental	Operating temperature 0~40°C								
	Storage temperature -15°C~45°C								
	Operating relative humidity 10% RH~102%RH; Non-condensing								
Physical	Packing size(cm)	47.5×26×37	38.5×29×44	38.5×29×44	38.5×29×44	47×40.5×27.5	47×40.5×27.5	47×24×27.5	47×24×27.5
	Qty	6	4	4	4	2	2	1	1



OVER VOLTAGE PROTECTION



DELAY TIME



LOW VOLTAGE PROTECTION



OVER TEMP PROTECTION

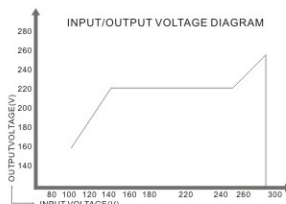
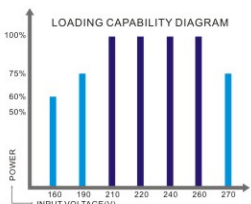
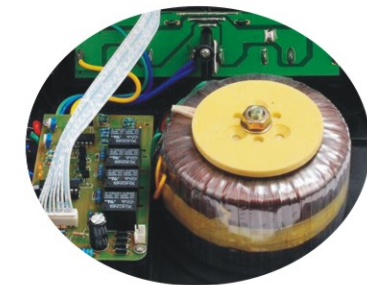
# RELAY TYPE AC VOLTAGE STABILIZER

WALL MOUNT CLASSIC PLASTIC PANEL VOLTAGE REGULATOR  
WPS SERIES AIR CONDITIONING VOLTAGE REGULATOR WITH CPU CONTROL



## Performance

Model		WPS 3000VA	WPS 5000VA
Power		3000VA	5000VA
Input	Input voltage range	160-250V/120-250V/100-250VAC(other voltages customization available)	
	Frequency	50/60HZ	
Output	Output voltage	220 VAC	
	Output precision	±8%	
Efficiency		>90%	
Phase		Single Phase	
Meter display status		Input voltage/Output voltage	
LED display status	Working	Green; Indicating power ON/OFF.	
	Delaying	Red;indicating delay ON/OFF	
	Unusual	Yellow; Indicating if the machine is working regularly	
Environmental	Operating temperature	0~40°C	
	Storage temperature	-15°C~45°C	
	Operating relative humidity	10% RH~102%RH; Non-condensing	
Physical	Packing size(cm)	47×40.5×27.5	47×40.5×27.5
	Qty	2	2



# RELAY TYPE AC VOLTAGE STABILIZER

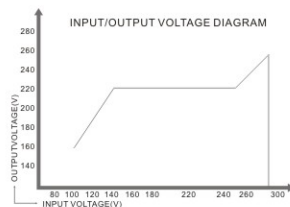
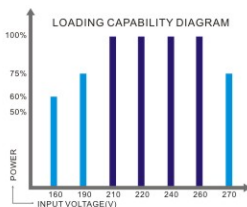
CLASSIC PLASTIC PANEL VOLTAGE REGULATOR

PPT SERIES PLUG PLATE TYPE CPU CONTROL VOLTAGE REGULATOR



## Performance

Model		PPT 1600VA	PPT 2200VA
Power		1600VA	2200VA
Input	Input voltage range	160-250V/120-250V/100-250VAC(other voltages customization available)	
	Frequency	50/60HZ	
Output	Output voltage	220 VAC	
	Output precision	±8%	
Efficiency		>90%	
Phase		Single Phase	
Meter display status		Input voltage/Output voltage	
LED display status	Working	Green; Indicating power ON/OFF.	
	Delaying	Red;indicating delay ON/OFF	
	Unusual	Yellow; Indicating if the machine is working regularly	
Environmental	Operating temperature	0~40°C	
	Storage temperature	-15°C~45°C	
	Operating relative humidity	10% RH~102%RH; Non-condensing	
Physical	Packing size(cm)	46.5×37.5×17	46.5×37.5×17
	Qty	2	2



OVER VOLTAGE PROTECTION



DELAY TIME



LOW VOLTAGE PROTECTION



OVER TEMP PROTECTION

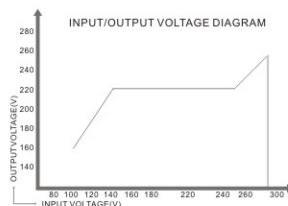
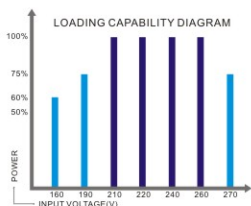
# RELAY TYPE AC VOLTAGE STABILIZER

TMK SERIES ULTRATHIN TYPE CPU CONTROL VOLTAGE REGULATOR



## Performance

Model		TMK 1600VA	TMK 2200VA
Power		1600VA	2200VA
Input	Input voltage range	160-250V/120-250V/100-250VAC(other voltages customization available)	
	Frequency	50/60HZ	
Output	Output voltage	220 VAC	
	Output precision	±8%	
Efficiency		>90%	
Phase		Single Phase	
Meter display status		Input voltage/Output voltage	
LED display status	Working	Green; Indicating power ON/OFF.	
	Delaying	Red;indicating delay ON/OFF	
	Unusual	Yellow; Indicating if the machine is working regularly	
Environmental	Operating temperature	0~40°C	
	Storage temperature	-15°C~45°C	
	Operating relative humidity	10% RH~102%RH; Non-condensing	
Physical	Packing size(cm)	47.5×27.5×29.5	47.5×27.5×29.5
	Qty	4	4



- OVER VOLTAGE PROTECTION
- DELAY TIME
- LOW VOLTAGE PROTECTION
- OVER TEMP PROTECTION



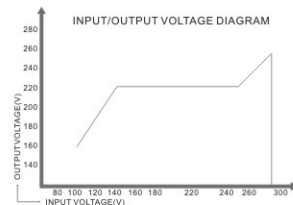
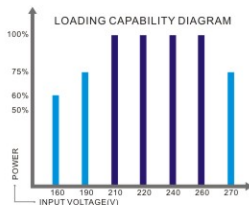
# RELAY TYPE AC VOLTAGE STABILIZER

## SVR SERIES CLASSIC PLASTIC PANEL VOLTAGE REGULATOR



### Performance

Model	SVR-500VA	SVR-1000VA	SVR-1500VA	SVR-2000VA	SVR-3000VA	SVR-5000VA	SVR-8000VA	SVR-10KVA	
Power	500VA	1000VA	1500VA	2000VA	3000VA	5000VA	8000VA	10KVA	
Input	Input voltage range 160-250V/120-250V/100-250VAC(other voltages customization available)								
	Frequency 50/60HZ								
Output	Output voltage 220 VAC								
	Output precision $\pm 8\%$								
Efficiency	>90%								
Phase	Single Phase								
Meter display status	Input voltage/Output voltage								
LED display status	Working Green; Indicating power ON/OFF.								
	Delaying Red;indicating delay ON/OFF								
	Unusual Yellow; Indicating if the machine is working regularly								
Environmental	Operating temperature 0~40°C								
	Storage temperature -15°C~45°C								
	Operating relative humidity 10% RH~102%RH; Non-condensing								
Physical	Packing size(cm)	47.5×26×37	38.5×29×44	38.5×29×44	38.5×29×44	47×40.5×27.5	47×40.5×27.5	47×24×27.5	47×24×27.5
	Qty	6	4	4	4	2	2	1	1



- OVER VOLTAGE PROTECTION
- DELAY TIME
- LOW VOLTAGE PROTECTION
- OVER TEMP PROTECTION



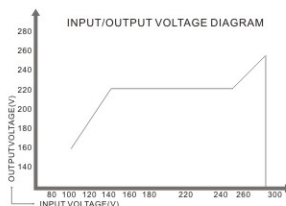
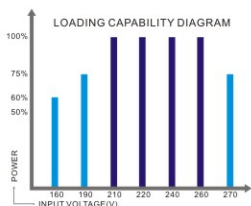
# RELAY TYPE AC VOLTAGE STABILIZER

AVC SERIES CLASSIC PLASTIC PANEL VOLTAGE REGULATOR



## Performance

Model	AVC-500VA	AVC-1000VA	AVC-1500VA	AVC-2000VA	AVC-3000VA	AVC-5000VA	AVC-8000VA	AVC-10KVA	
Power	500VA	1000VA	1500VA	2000VA	3000VA	5000VA	8000VA	10KVA	
Input	Input voltage range 160-250V/120-250V/100-250VAC(other voltages customization available)								
	Frequency 50/60HZ								
Output	Output voltage 220 VAC								
	Output precision $\pm 8\%$								
Efficiency	$>90\%$								
Phase	Single Phase								
Meter display status	Input voltage/Output voltage								
LED display status	Working Green; Indicating power ON/OFF.								
	Delaying Red;indicating delay ON/OFF								
	Unusual Yellow; Indicating if the machine is working regularly								
Environmental	Operating temperature 0~40°C								
	Storage temperature -15°C~45°C								
	Operating relative humidity 10% RH~102%RH; Non-condensing								
Physical	Packing size(cm)	47.5×26×37	38.5×29×44	38.5×29×44	38.5×29×44	47×40.5×27.5	47×40.5×27.5	47×24×27.5	47×24×27.5
	Qty	6	4	4	4	2	2	1	1



- OVER VOLTAGE PROTECTION
- DELAY TIME
- LOW VOLTAGE PROTECTION
- OVER TEMP PROTECTION



# RELAY TYPE AC VOLTAGE STABILIZER

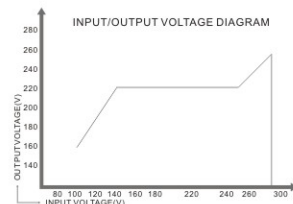
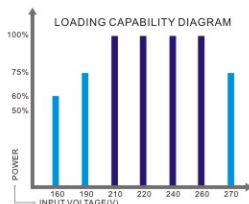
DIGITAL DISPLAY AC AUTOMATIC VOLTAGE REGULATOR

SDR SERIES CPU CONTROL VOLTAGE REGULATOR



## Performance

Model	SDR-500VA	SDR-1000VA	SDR-1500VA	SDR-2000VA	SDR-3000VA	SDR-5000VA	SDR-8000VA	SDR-10KVA	
Power	500VA	1000VA	1500VA	2000VA	3000VA	5000VA	8000VA	10KVA	
Input	Input voltage range 160-250V/120-250V/100-250VAC(other voltages customization available)								
	Frequency 50/60HZ								
Output	Output voltage 220 VAC								
	Output precision $\pm 8\%$								
Efficiency	>90%								
Phase	Single Phase								
Meter display status	Output voltage								
LED display status	Working Red; Indicating power ON/OFF.								
	Delaying Red;indicating delay ON/OFF								
	Unusual Red; Indicating if the machine is working regularly								
Environmental	Operating temperature 0~40°C								
	Storage temperature -15°C~45°C								
	Operating relative humidity 10% RH~102%RH; Non-condensing								
Physical	Packing size(cm)	30.5×27.5×37	38.5×29×44	38.5×29×44	38.5×29×44	47×40.5×27.5	47×40.5×27.5	47×24×27.5	47×24×27.5
	Qty	4PCS	4PCS	4PCS	4PCS	2PCS	2PCS	1PCS	1PCS



OVER VOLTAGE PROTECTION



DELAY TIME



LOW VOLTAGE PROTECTION



OVER TEMP PROTECTION

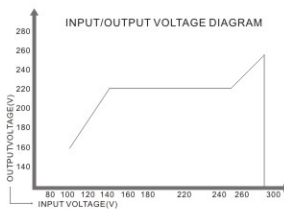
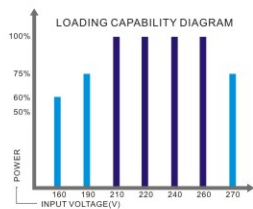
# RELAY TYPE AC VOLTAGE STABILIZER

## AVR-T SERIES MENTAL PANEL AUTOMATIC VOLTAGE REGULATOR



### Performance

Model	AVR-500T	AVR-1000T	AVR-1500T	AVR-2000T	AVR-3000T	AVR-5000T	AVR-8000T	AVR-10KT	
Power	500VA	1000VA	1500VA	2000VA	3000VA	5000VA	8000VA	10KVA	
Input	Input voltage range 160-250V/120-250V/100-250VAC(other voltages customization available)								
	Frequency 50/60HZ								
Output	Output voltage 220 VAC								
	Output precision $\pm 8\%$								
Efficiency	$>90\%$								
Phase	Single Phase								
Meter display status	Output voltage								
Pointer table display	YES								
Environmental	Operating temperature 0~40°C								
	Storage temperature -15°C~45°C								
	Operating relative humidity 10% RH~102%RH; Non-condensing								
Physical	Packing size(cm)	41.5×24.5×34	41.5×24.5×34	49.5×27.5×39.5	49.5×27.5×39.5	60×35.5×24.5	59.5×36.5×28	36.5×36×29	36.5×36×29
	Qty	4	4	4	4	2	2	1	1



OVER VOLTAGE PROTECTION



DELAY TIME



LOW VOLTAGE PROTECTION



OVER TEMP PROTECTION



# RELAY TYPE AC VOLTAGE STABILIZER

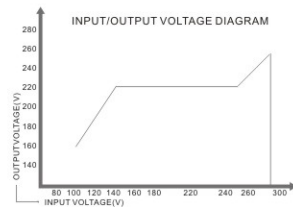
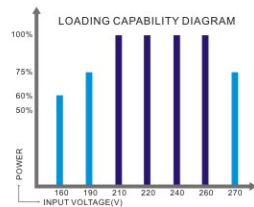
WALL MOUNT RELAY CONTROL AC VOLTAGE REGULATOR

TM/WMS SERIES CPU CONTROL VOLTAGE REGULATOR(Air conditioning special USE)



## Technical Parameter

Model	TM-3000VA	TM-5000VA	TM-8000VA	TM-10000VA
Power	3000VA	5000VA	8000VA	10000VA
Technology	Relay control			
LED Intelligent Screen Display	Meter	Output Voltage/Input Voltage		
Protection	Over Voltage	Output voltage $\geq$ 248 $\pm$ 4v		
	Over Loading	More than 120%		
	Over Temperature	120 $^{\circ}$ C $\pm$ 10 $^{\circ}$ C		
	Circuit Breaker	Regulator/By-Pass		
Input voltage	160-250VAC(other voltages customization available)			
Output voltage	220V $\pm$ 8%			
Frequency	50HZ/60HZ			
Phase	Single Phase			
Efficiency	$\geq$ 95%			
Ambient temperature	-15 $^{\circ}$ C-45 $^{\circ}$ C			
Relative humidity	<95%			
Waveform distortion	No additional wave form distortion			
Insulating resistance	Normally more than 2 $\Omega$			
Packing size (cm)	42 $\times$ 32 $\times$ 18	49 $\times$ 36 $\times$ 19	49 $\times$ 36 $\times$ 25	49 $\times$ 36 $\times$ 25
Packing	1PCS	1PCS	1PCS	1PCS



OVER VOLTAGE PROTECTION



DELAY TIME



LOW VOLTAGE PROTECTION



OVER TEMP PROTECTION

# STEP UP & DOWN TRANSFORMER

BLACK CASE STEP UP & DOWN TRANSFORMER  
ST/DT SERIES (110V<—>220V)



## ST/DT-100W~10000W STEP UP & DOWN TRANSFORMER

- \* Sockets optional
- \* Carrying handle
- \* Input voltage selector
- \* ON/OFF switch
- \* Fuse/MCB protection
- \* Warranty: one year from delivery

## Functions

- \* This voltage converter can be used in 110 volt countries and 220 volt countries. It will convert from 220-240 volt to 110-120 volt and from 110-120 volt to 220-240 volt.
- \* Precise input voltage selection according to the country where it is being used.
- \* Input voltage selector: 110V-120V-220V-240 volt (other voltages customization available)
- \* Output: 110/220-120/240 Volt
- \* Suitable for Water Dispenser, Printer Rice Cooker, Fan, Fax Machine, Air Machine, Computer.

Model	Capacity	Package Size (cm)	Qty/Package
ST/DT-100	100W	41.5×27×38	12PCS
ST/DT-200	200W	41.5×27×38	12PCS
ST/DT-300	300W	48×29×41	12PCS
ST/DT-500	500W	48×29×41	12PCS
ST/DT-750	750W	48×29×41	12PCS
ST/DT-1000	1000W	49.5×33×21	2PCS
ST/DT-1500	1500W	49.5×33×21	2PCS
ST/DT-2000	2000W	49.5×33×21	2PCS
ST/DT-3000	3000W	54.5×33×24.5	2PCS
ST/DT-4000	4000W	54.5×33×24.5	2PCS
ST/DT-5000	5000W	54.5×33×24.5	2PCS
ST/DT-7500	7500W	42.5×33×28	1PCS
ST/DT-10000	10000W	42.5×33×28	1PCS



# STEP UP & DOWN TRANSFORMER

BLACK CASE STEP UP & DOWN TRANSFORMER  
STU SERIES WITH USB(110V<—>220V)



## STU-100W~10000W STEP UP & DOWN TRANSFORMER

- \* Sockets optional
- \* Carrying handle
- \* Input voltage selector
- \* ON/OFF switch
- \* Fuse/MCB protection
- \* Warranty: one year from delivery

## Functions

- \* This voltage converter can be used in 110 volt countries and 220 volt countries. It will convert from 220-240 volt to 110-120 volt and from 110-120 volt to 220-240 volt.
- \* Precise input voltage selection according to the country where it is being used.
- \* Input voltage selector: 110V-120V-220V-240 volt(other voltages customization available)
- \* Output: 110/220-120/240 Volt, with USB
- \* Suitable for Water Dispenser, Printer Rice Cooker, Fan, Fax Machine, Air Machine, Computer.

Model	Capacity	Package Size (cm)	Qty/Package
STU-100	100W	41.5×27×38	12PCS
STU-200	200W	41.5×27×38	12PCS
STU-300	300W	48×29×41	12PCS
STU-500	500W	48×29×41	12PCS
STU-750	750W	48×29×41	12PCS
STU-1000	1000W	49.5×33×21	2PCS
STU-1500	1500W	49.5×33×21	2PCS
STU-2000	2000W	49.5×33×21	2PCS
STU-3000	3000W	54.5×33×24.5	2PCS
STU-4000	4000W	54.5×33×24.5	2PCS
STU-5000	5000W	54.5×33×24.5	2PCS
STU-7500	7500W	42.5×33×28	1PCS
STU-10000	10000W	42.5×33×28	1PCS



# FULL AUTO STEP UP & DOWN TRANSFORMER

FULL AUTO ZX PT TK SERIES STEP UP & DOWN TRANSFORMER  
ZX SERIES(110V<—>220V)



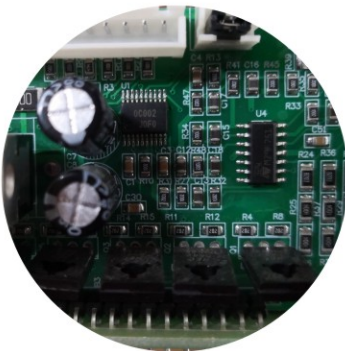
## 500W~2000W STEP UP & DOWN TRANSFORMER

- \* Sockets optional
- \* Carrying handle
- \* Warranty: one year from delivery
- \* ON/OFF switch
- \* Fuse/MCB protection
- \* CPU CONTROL FULL AUTO INPUT 110V~120V AND 220V~240V SELECTOR

## Functions

- \* This voltage converter can be used in 110 volt countries and 220 volt countries. It will be full auto convert from 220-240 volt to 110-120 volt and from 110-120 volt to 220-240 volt.
- \* Input voltage auto selection according to the country where it is being used.
- \* Input voltage full auto selector: 110V-120V-220V-240 volt(other voltages customization available)
- \* Output: 110/220-120/240 Volt,( with USB yes or no)
- \* Suitable for Water Dispenser, Printer Rice Cooker, Fan, Fax Machine, Air Machine, Computer.

Model	Capacity	Package Size (cm)	Qty/Package
500	500W	48×29×41	12PCS
750	750W	48×29×41	12PCS
1000	1000W	49.5×33×21	2PCS
1500	1500W	49.5×33×21	2PCS
2000	2000W	49.5×33×21	2PCS



# STEP UP & DOWN TRANSFORMER

WHITE CASE STEP UP & DOWN TRANSFORMER  
TC SERIES(110V<—>220V)

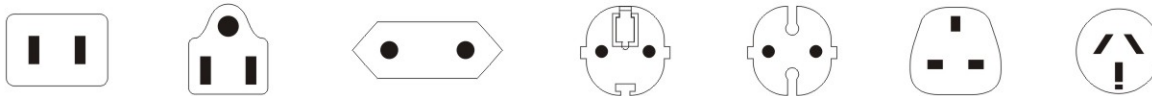


## TC-100W~10000W STEP UP & DOWN TRANSFORMER

- \* One or two socket
- \* With one double power core
- \* Fuse protection
- \* ON/OFF switch
- \* Input voltage selector optional

## Functions

\* This kind of product is designed for the electrical appliances with voltage of AC 110/220V used in the area of AC 220/240V, or AC 220/240 voltage used in the area of AC 110/120V. They are for use with all electronic and electrical equipment(up to rated wattage).



Model	Capacity	Package Size (cm)	Qty/Package
TC-100D	100W	24×20.5×19	8PCS
TC-200D	200W	24×20.5×19	8PCS
TC-300D	300W	24×20.5×19	8PCS
TC-500D	500W	32×17.5×26.5	6PCS
TC-750D	750W	32×17.5×26.5	6PCS
TC-1000D	1000W	32×17.5×26.5	6PCS
TC-1500D	1500W	46×25.5×22	2PCS
TC-2000D	2000W	46×25.5×22	2PCS
TC-3000D	3000W	46×25.5×22	2PCS
TC-4000D	4000W	31.5×23.5×27	1PCS
TC-5000D	5000W	31.5×23.5×27	1PCS
TC-7500D	7500W	40×29×29	1PCS
TC-10000D	10000W	40×29×29	1PCS



# STEP UP & DOWN TRANSFORMER

BLACK CASE STEP UP & DOWN TRANSFORMER  
THG SERIES(110V<—>220V)

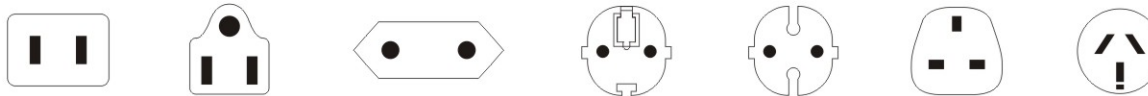


## THG-100W~10000W STEP UP & DOWN TRANSFORMER

- \* One or two socket
- \* With one double power core
- \* Fuse protection
- \* ON/OFF switch
- \* Input voltage selector optional

## Functions

\* This kind of product is designed for the electrical appliances with voltage of AC 110/220V used in the area of AC 220/240V, or AC 220/240 voltage used in the area of AC 110/120V. They are for use with all electronic and electrical equipment(up to rated wattage).



Model	Capacity	Package Size (cm)	Qty/Package
THG-100	100W	24×20.5×19	8PCS
THG-200	200W	24×20.5×19	8PCS
THG-300	300W	24×20.5×19	8PCS
THG-500	500W	32×17.5×26.5	6PCS
THG-750	750W	32×17.5×26.5	6PCS
THG-1000	1000W	32×17.5×26.5	6PCS
THG-1500	1500W	46×25.5×22	2PCS
THG-2000	2000W	46×25.5×22	2PCS
THG-3000	3000W	46×25.5×22	2PCS
THG-4000	4000W	31.5×23.5×27	1PCS
THG-5000	5000W	31.5×23.5×27	1PCS
THG-7500	7500W	40×29×29	1PCS
THG-10000	10000W	40×29×29	1PCS



# CONTACT VOLTAGE REGULATOR

SINGLE PHASE MANUAL VOLTAGE REGULATOR

TDGC<sub>2</sub>J SERIES AMERICAN STYLE



## Application

The product is special auto transformer which is connected in different forms. Its output voltage can be regulated smoothly and continuously from zero to the maximum value. The provision of an indication meter is made for the models TDGC<sub>2</sub>J 0.5, 1, 2, 3, 5KVA. All models find popular application in industries, agriculture and scientific researches, and are particularly suited to serve as ancillary facilities for such equipment as various machine tools, transistor curve tracers, projecting TV sets, and analytical instruments in petroleum industry, etc.

## Output Current

Model	Phase	Frequency(Hz)	Input voltage(V)	Output voltage (V)	Max. Output current (A)	Size/Package (cm)	Qty
TDGC <sub>2</sub> J-0.5KVA	1	50/60	110	0-130	5	52×20×34	4
TDGC <sub>2</sub> J-1KVA					9	41.5×24×43	2
TDGC <sub>2</sub> J-2KVA					18	41.5×24×43	2
TDGC <sub>2</sub> J-3KVA					27	66.5×26×49.5	2
TDGC <sub>2</sub> J-5KVA					45	33×28×30	1



# CONTACT VOLTAGE REGULATOR

TDGC<sub>2</sub> & TSGC<sub>2</sub> SERIES SINGLE & THREE PHASE MANUAL VOLTAGE REGULATOR



## Application

The product is special auto transformer which is connected in different forms. Its output voltage can be regulated smoothly and continuously from zero to the maximum value. The provision of an indication meter is made for the models TDGC<sub>2</sub> 0.2, 0.25, 0.5KVA. All models find popular application in industries, agriculture and scientific researches, and are particularly suited to serve as ancillary facilities for such equipment as various machine tools, transistor curve tracers, projecting TV sets, and analytical instruments in petroleum industry, etc.

## Output Current

Model	Phase	Frequency(Hz)	Input voltage(V)	Output voltage (V)	Max. Output current (A)	Size/Package (cm)	Qty
TDGC <sub>2</sub> -0.2KVA	1	50/60	110/220	0-250	0.36/0.8	52×20×34	6
TDGC <sub>2</sub> -0.5KVA					0.88/2	52×20×34	6
TDGC <sub>2</sub> -1KVA					1.6/4	41.5×24×43	4
TDGC <sub>2</sub> -2KVA					3.2/8	41.5×24×43	4
TDGC <sub>2</sub> -3KVA					4.8/12	66.5×26×49.5	2
TDGC <sub>2</sub> -5KVA					8/20	33×28×30	1
TDGC <sub>2</sub> -10KVA					16/40	38×29×47	1
TDGC <sub>2</sub> -15KVA					24/60	38×30×64	1
TDGC <sub>2</sub> -20KVA					80	38×30×86	1
TSGC <sub>2</sub> -1.5KVA					3	50-60	220/380
TSGC <sub>2</sub> -3KVA	1.6/4	30×22×48	1				
TSGC <sub>2</sub> -6KVA	3.2/8	30×22×53	1				
TSGC <sub>2</sub> -10KVA	5.4/13.4	34×26×55	1				
TSGC <sub>2</sub> -15KVA	20	34×26×60	1				
TSGC <sub>2</sub> -20KVA	28	34×26×85	1				
TSGC <sub>2</sub> -30KVA	40	34×26×130	1				





# CONTROL TRANSFORMER

## JBK<sub>3</sub> SERIES INDUSTRIAL CONTROL TRANSFORMER

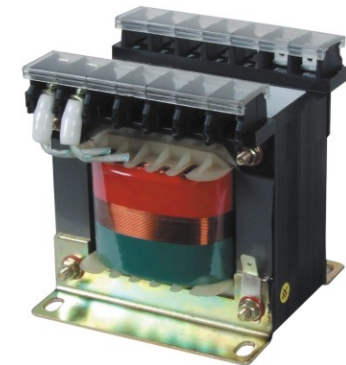


### Application

JBK<sub>3</sub> series machine tool control transformer is a kind of new product by reference to sample of SIMENS Company, it accords with standards like VDE0550, IEC204-1, IEC439, GB5226, etc. It is suitable for AC circuit of 50-60Hz, output rated voltage less than 220V, input rated voltage less than 500V, worked as control power supply for mechanical equipment and general electrical appliance and as power supply for work lighting and signal lamp.

### Specifications

Type	Rated capacity (VA)	Uel Rated Input Voltage (V)	Rated output voltage		
			Control	Illumination	Indication
JBK <sub>3</sub> -40	40	220±5% 380±5%	110 (127)	24 (36)	6 (12)
JBK <sub>3</sub> -63	63				
JBK <sub>3</sub> -100	100				
JBK <sub>3</sub> -160	160				
JBK <sub>3</sub> -250	250				
JBK <sub>3</sub> -400	400				
JBK <sub>3</sub> -630	630				
JBK <sub>3</sub> -1000	1000				
JBK <sub>3</sub> -1600	1600				
JBK <sub>3</sub> -2500	2500				
			Distribution of capacity for different winding may be according to the uses' request.		



# AUTOTRANSFORMER

DG/SG/SBK SINGLE/THREE PHASE TRANSFORMER



## Application

DG,SG,SBK series single-phase; three-phase dry-type transformer is our company over the years using high-quality materials and advanced technology for the production of AC 50/60Hz, the voltage in the circuit of 1000V in the products, various input, output connected groups, distribution tap line capacity, can according to user requirements design and manufacture. The product has low loss and low noise; the advantages of fire proof and no pollution to environment etc.

## Specifications

input voltage	110/115/220/230/240/380/460/660V (other voltages customization available)
output voltage	240/230/220/115/110/660/460/380V
working frequency	50/60Hz
efficiency	≥90%
protection function	fuse or breaker protection
relative humidity	20%~80%
altitude	≤1000m
waveform distortion	no
electrical strength	2000V/<1min
insulation resistance	≥5M

CAPACITY(KVA)	OPENING SIZE(mm)	PROTECTIVE TYPE SIZE(mm)
0.5	250 X 160 X 220	280 X 330 X 280
1	250 X 180 X 220	280 X 330 X 385
1.5	250 X 200 X 220	320 X 370 X 305
2	250 X 200 X 220	320 X 370 X 425
3	250 X 214 X 285	380 X 400 X 425
4	250 X 230 X 285	380 X 400 X 360
5	250 X 230 X 285	380 X 400 X 360
7	250 X 280 X 335	500 X 380 X 470
8	250 X 280 X 350	500 X 380 X 470

CAPACITY(KVA)	OPENING SIZE(mm)	PROTECTIVE TYPE SIZE(mm)
10	450 X 278 X 350	500 X 380 X 470
15	510 X 275 X 390	630 X 400 X 530
20	550 X 275 X 430	630 X 400 X 530
25	550 X 294 X 430	630 X 400 X 530
30	610 X 290 X 450	700 X 400 X 560
40	770 X 390 X 570	900 X 530 X 770
50	770 X 390 X 570	900 X 530 X 770
100	890 X 460 X 800	1050 X 530 X 770
150	900 X 560 X 960	1050 X 530 X 800



# BATTERY CHARGER

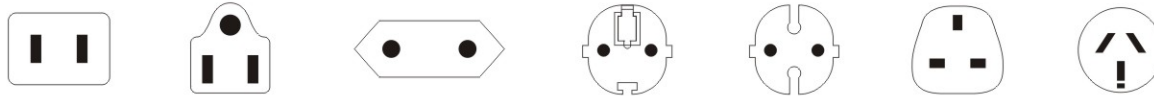
## AUT SERIES VOLTAGE FLOATING AUTOMATIC BATTERY CHARGER



### Functions

- \* Polarity protection
- \* Over charge protection
- \* Output current display
- \* With floating voltage charging

### Technical Parameter



Model	AUT-6A	AUT-10A	AUT-15A	AUT-20A	AUT-30A
Nominal battery voltage	6V DC 12V DC 24V DC ±20%				
Maximum output-current(Amps)	3-6A DC	10A DC	15A DC	20A DC	30A DC
Maximum voltage electronic regulation	14.50V@25°C				
Mains supply voltage	220~240Vac 50~60Hz(other voltages customization available)				
Tolerance to mains supply distortion	16%THD				
Mains Protection	Reverse polarity, short circuit				
Output protection	Over load, short circuit, charging full				
Temperature range	-10°C~45°C				
Cabinet: W x O x H	57.5×29.5×37cm				
QTY	4PCS/carton				
Input voltage	220±10%				
Frequency	50Hz/60Hz				
Environment temperature	-10°C~+40°C				
Relative humidity	80%				
Charge mode	AUTOMATIC				
Charge voltage	6V、12V、24V、36V、48V、or others will be customized				
Temperatrue rise of whole machine	≤60°C				



# BATTERY CHARGER

## GCA SERIES VOLTAGE FLOATING BATTERY CHARGER



### Features

- Output current display
- Charging overload protection
- Power switch
- Power LED indicator
- Power overload protection
- Charging voltage selection
- Charging LED indicator
- Charging high/low selection
- Power plug optional

### Application



### Technical Parameter

Model	GCA-10A	GCA-15A	GCA-20A	GCA-30A	GCA-40A	GCA-50A
Charge voltage	12/24V(other voltages customization available)					
Maxlimum charge current	10A	15A	20A	30A	40A	50A
Mains supply	220VAC/110VAC±20%					
Frequency	50/6Hz					
Mains protection	reverse polarity,short circuit					
Output protection	overload,short circuit					
Temperature range	-10℃~+45℃					
Relative humidity	80%					
Product size (cm)	23.7 x 18.8 x 13.5			30 x 24.5 x 14		
Carton size (cm)	37.5 x 26 x 30			51 x 32 x 17		
Qty/Cartom	4			2		



# BATTERY CHARGER

## IWR(CB) SERIES CURRENT FLOATING AUTOMATIC BATTERY CHARGER



### General

- \* IWR battery charger is designed especially for charging weak battery (DC-Only) (e.g. Car battery, motorcycle, boat, etc).
- \* This unit is completed with Ampere Level Control (note: for 6 Amp and up) and level volt.
- \* A built up fan is also attached at rear of the unit to reduce heat during the operation.
- \* This unit is also completed with fuse and ground control for extra protection if accident may occur.
- \* This unit can be operated easily, even for first time user.
- \* With floating current charging.

### Technical Parameter



Model	IWR-10	IWR-15	IWR-20	IWR-40	IWR-60	IWR-80	IWR-100
Output voltage	12/24V	12/24V	12/24/36/48/60/72V	12/24/36/48/60/72/84/96/108/120V			
Maximum output-current(Amps)	10A DC	15A DC	20A DC	40A DC	60A DC	80A DC	100A DC
Mains supply voltage	220~240Vac 50~60Hz(other voltages customization available)						
Mains protection	Reverse polarity, short circuit						
Output protection	Over load, short circuit, charging full						
Temperature range	-10°C~45°C						
Cabinet: W×D×H	200×110×250mm	240×133×303mm	280×155×330mm				
Input voltage	220±10%						
Frequency	50Hz/60Hz						
Environment temperature	-10°C~+40°C						
Relative humidity	80%						
Charge mode	AUTOMATIC						
Temperature rise of whole machine	≤6°C						



# Fridge Guard, TV / DVD Guard, AVS 13

## VOLTAGE SURGE PROTECTOR



Application	Motor Driven Equipments, Fridge, Freezer, Pumps, etc	Electronic Products, TV, DVD etc	Universal
Model	Fridge Guard	TV / DVD Guard	AVS 13
Rated Voltage	230V 50/60Hz	230V 50/60Hz	230V 50/60Hz
Rated Current	5A / 7A / 13A / 15A	5A / 7A / 13A / 15A	13A
Over-Voltage Disconnect	/	260V	260V
Over-Voltage Re-connect	/	258V	258V
Under-voltage Disconnect	185V	/	185V
Under-voltage Re-connect	190V	/	190V
Delay time	90 Seconds	30 Seconds	30 Seconds - 1.5 Mins adjustable
Spike Protection	160J	160J	160J
Max.Spike Surge	6.5KA	6.5KA	/
Material	ABS	ABS	/
Plug / Socket	UK, EU, India 5A	UK, EU, India 5A	UK
Package	Blister Or Color Box	Blister Or Color Box	Blister

Mark: The voltage, Current, Delay time, plug, Socket, package, and other parameters can be produced according to your demands



Fridge Guard



TV / DVD Guard



AVS 13

# AVS 15, AVS 30, DSP 1P-0, AVS 3P

## VOLTAGE SURGE PROTECTOR



Application	Universal	Universal	Universal
Model	AVS 15	AVS 30	DSP 1P-0 & AVS 3P
Rated Voltage	230V 50/60Hz	230V 50/60Hz	220V/240V(DSP1P-0), 380V/415V(AVS3P)
Rated Current	15A	30A	16A
Over-Voltage Disconnect	260V	/	/
Over-Voltage Re-connect	258V	/	/
Under-voltage Disconnect	185V	/	/
Under-voltage Re-connect	190V	/	/
Over-Voltage Protection	/	150-220V Adjustable	/
Under-Voltage Protection	/	230-270V Adjustable	/
Delay time	1.5 Mins - 5 Mins adjustable	5 Seconds - 10 Mins adjustable	/
Spike Protection	160J	160J	/
Max.Spike/ Surge	/	6.5kA	/
Response time	/	Less than 10 ns	Less than 10 ns
Max.Let Through Voltage	/	/	750V(8/20ms)
Peak Discharge Current	/	/	20kA
Total Energy	/	/	1280J(DSP1P-0),2560J(AVS3P)
Plug / Socket	India 15A	Direct Wiring	Direct wiring
Package	Blister	Blister	Color Box



AVS 15



AVS 30



AVS 3P



DSP 1P-0

Mark: The voltage, Current, Delay time, plug, Socket, package, and other parameters can be produced according to your demands

# VP-2155、VP-2166、VP-2166D

## VOLTAGE SURGE PROTECTOR



Application	Universal		Universal		Universal	
Model	VP-2155		VP-2166		VP-2166D	
Rated Voltage	120V	230V	120V	230V	120V	230V
Voltage range	85-135V,	165-250V	85-135V	165-250V	85-135V,	165-250V
Under-Voltage Protection	85V	165V	85V	165V	85V	165V
Over-voltage Protection	135V	250V	135V	250V	135V	250V
Rated Current	10A / 15A / 20A		10A / 15A / 20A		10A / 15A / 20A	
Delay Time	30S -180S Optional		30S -180S Optional		30S -180S Optional	
Spike Protection	100J		100J		100J	
Material	ABS		ABS		ABS	
Plug / Socket	Any Kinds optional		Any Kinds optional		Any Kinds optional	
Package	Blister Or Color Box		Blister Or Color Box		Blister Or Color Box	

Mark: The voltage, Current, Delay time, plug, Socket, package, and other parameters can be produced according to your demands



VP-2155



VP-2166



VP-2166D



# VP-1101, VP-1102, VP-1104

## VOLTAGE SURGE PROTECTOR

Application	Universal	Universal	Universal
Model	<b>VP-1101</b>	<b>VP-1102</b>	<b>VP-1104</b>
Rated Voltage	120V	120V	120V
Frequency	50 / 60Hz	50 / 60Hz	50 / 60Hz
Rated Current	10A / 15A	10A / 15A/20A	10A / 15A
Under-Voltage Protection	85V	90-105V Adjustable	90V
Over-Voltage Protection	140V	135V	135V
Hysterises for cut off	3-5V	3-5V	3-5V
Delay time	20S-180S	30S-180S	30S-180S
Max. Temp.	65°C	65°C	65°C
Plug / Socket	US	US	US
Package	Blister	Blister	Blister

Mark: The voltage, Current, Delay time, plug, Socket, package, and other parameters can be produced according to your demands



VP-1101



VP-1102



VP-1104

**VP-1105, VP-1108, VP-1109**  
VOLTAGE SURGE PROTECTOR



Application	Universal	Universal		Universal
Model	<b>VP-1105</b>	<b>VP-1108</b>		<b>VP-1109</b>
Rated Voltage	120V	120V	230V	120V
Voltage range	/	85-140V	165-250V	/
Under-Voltage Protection	85V	85V	165V	85V
Over-Voltage Protection	140V	140V	250V	140V
Rated Current	10A / 15A	10A / 15A / 20A / 30A		10A / 15A
Frequency	50 / 60Hz	50 / 60Hz		50 / 60Hz
Hysterises for cut off	3-5V	3-5V		3-5V
Delay time	20S-180S	3-5 Mins		2-5 Mins
Max. Temp.	65°C	65°C		65°C
Plug / Socket	US	Direct Wiring		US
Package	Blister	Blister Or Color Box		Blister

Mark: The voltage, Current, Delay time, plug, Socket, package, and other parameters can be produced according to your demands



VP-1105



VP-1108



VP-1109

# VP-2101, VP-2102, VP-2103

## VOLTAGE SURGE PROTECTOR

Application	Universal		Universal	Universal
Model	VP-2101		VP-2102	VP-2103
Rated Voltage	120V	230V	230V	230V
Voltage range	85-140V,	165-250V	140-255V	170-260V
Under-voltage Protection	85V	165V	140V	170V
Over-Voltage Protection	140V	250V	255V	260V
Rated Current	10A / 15A / 20A		10A	16A
Delay time	20 Seconds -3 Mins		3 Seconds - 5 Mins	20 Seconds - 3 Mins
Material	PC / ABS		PC / ABS	PC / ABS
Max. Temp.	65°C		65°C	65°C
Plug / Socket	Any kind optional		UK (Dual Output)	Any kinds optional
Package	Color Box		Blister or Color Box	Blister or Color Box

Mark: The voltage, Current, Delay time, plug, Socket, package, and other parameters can be produced according to your demands



VP-2101



VP-2102



VP-2103

# VP-2103-15A, VP-2105, VP-2109

## VOLTAGE SURGE PROTECTOR



<b>Application</b>	Universal	Universal	Universal
<b>Model</b>	<b>VP-2103-15A</b>	<b>VP-2105</b>	<b>VP-2109</b>
<b>Rated Voltage</b>	230V	230V	230V
<b>Voltage range</b>	170-260V	170-260V	170-260V
<b>Under-voltage Protection</b>	170V	170V	170V
<b>Over-Voltage Protection</b>	260V	260V	260V
<b>Rated Current</b>	15A	10A / 15A / 20A	10A / 15A / 20A
<b>Delay time</b>	20 Seconds - 3 Mins	20 Seconds - 3 Mins	20 Seconds - 3 Mins
<b>Material</b>	PC / ABS	PC / ABS	PC / ABS
<b>Max. Temp.</b>	65°C	65°C	65°C
<b>Plug / Socket</b>	India 15A	UK (Dual Output)	UK (Dual Output)
<b>Package</b>	Blister or Color Box	Blister or Color Box	Blister or Color Box

Mark: The voltage, Current, Delay time, plug, Socket, package, and other parameters can be produced according to your demands



VP-2103-15A



VP-2105



VP-2109

**VP-2626、VP-2136、VP-2138**  
VOLTAGE SURGE PROTECTOR



<b>Application</b>	Universal	Universal	Universal
<b>Model</b>	<b>VP-2626</b>	<b>VP-2136</b>	<b>VP-2138</b>
<b>Rated Voltage</b>	230V 50/60Hz	230V 50/60Hz	230V 50/60Hz
<b>Voltage range</b>	170-260V	170-240V	165-250V
<b>Under-voltage Protection</b>	170V	175V	165-205V Adjustable
<b>Over-Voltage Protection</b>	260V	240V	220-250V Adjustable
<b>Rated Current</b>	13A	15A	16A
<b>Delay time</b>	20 Seconds - 3 Mins	5 Mins	5 Seconds - 10 Mins Adjustable
<b>Material</b>	PC / ABS	Wall-Mount	Yes
<b>Max. Temp.</b>	65°C	65°C	65°C
<b>Plug / Socket</b>	UK (Dual Output)	Any Kinds Optional	Any Kinds Optional
<b>Package</b>	Blister or Color Box	Blister or Color Box	Blister or Color Box

Mark: The voltage, Current, Delay time, plug, Socket, package, and other parameters can be produced according to your demands



VP-2626



VP-2136



VP-2138

# AVS-30 / 45

## VOLTAGE SURGE PROTECTOR



Application	Universal	
Model	AVS-30 / 45	
Rated Voltage	120V	230V
Voltage range	70-150V	140-260V
Under-voltage Protection	70-100V Adjustable	140-210V Adjustable
Over-Voltage Protection	120-150V Adjustable	230-260V Adjustable
Rated Current	10A / 15A / 20A / 30A / 45A	
Delay Time	5S -999S Optional	
Spike Protection	100J	
Material	ABS	
Plug / Socket	Direct Wiring	
Package	Blister Or Color Box	



AVS-30 / 45

Mark: The voltage, Current, Delay time, plug, Socket, package, and other parameters can be produced according to your demands

**FITTING SERIES**  
POWER SOCKET & PLUG SERIES



P01



P02



P03



P04



P05



P06



P07



P08



P09



P10



P11



P12



P13



P14



S01



S02



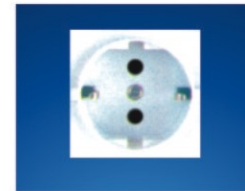
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S04



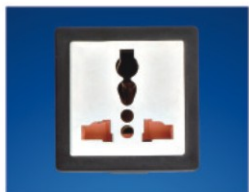
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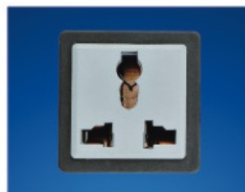
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S09



S10



S11



S12



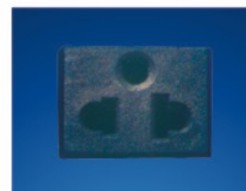
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S14



S15



S16



S14



S18



S19



S20



S21



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