



SCAN QR CODE

AUTOMATIC VOLTAGE REGULATOR | INVERTER | UPS
CONVERTER | SOLAR SYSTEM



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PRODUCT CATALOG

www.scientekpower.com

ABOUT US

COMPANY PROFILE

Power is a fundamental part of our world, Ironically, we don't notice it unless it has problem. Since 2007, KTAC has been dedicated and specializing in research, design, and manufacture of power supply solutions and products against various power supply problems such as power breakouts, fluctuation, power outage, sags, spikes, surges, transient etc. Located in Foshan, the power supply hub of China, KATC holds three factories with more than 8000 square meters production area, 8 production lines, more than 100 workers, with our facility and a highly professional and motivated team of engineering, manufacturing, quality assurance, materials management and sales personnel, KTAC provide the following products and solutions:

- Power inverter
- Power transformer
- Battery Charger
- UPS power supply
- Solar system
- Line conditioner
- Solar charge controller
- Switching power supply
- Automatic voltage stabiliser



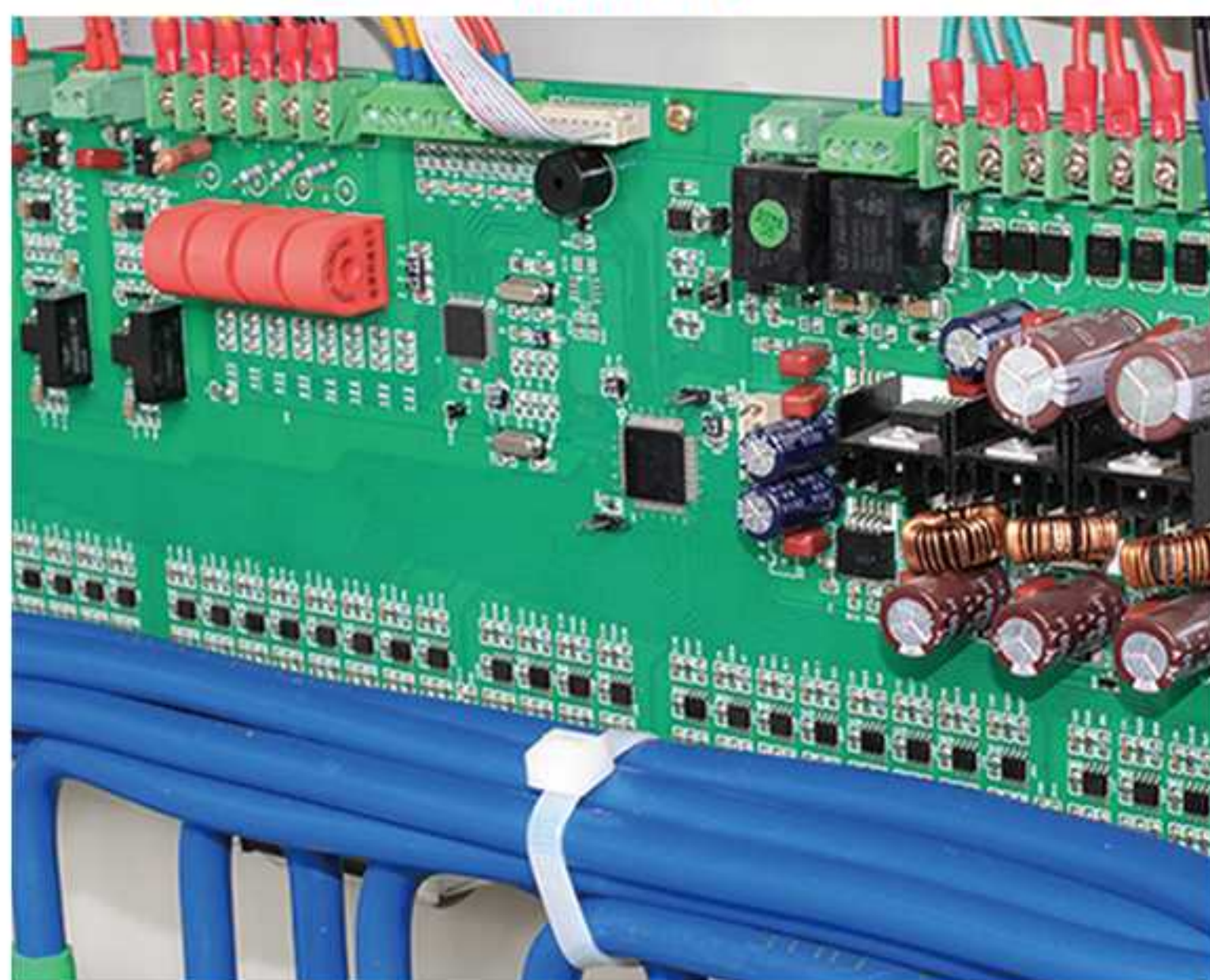
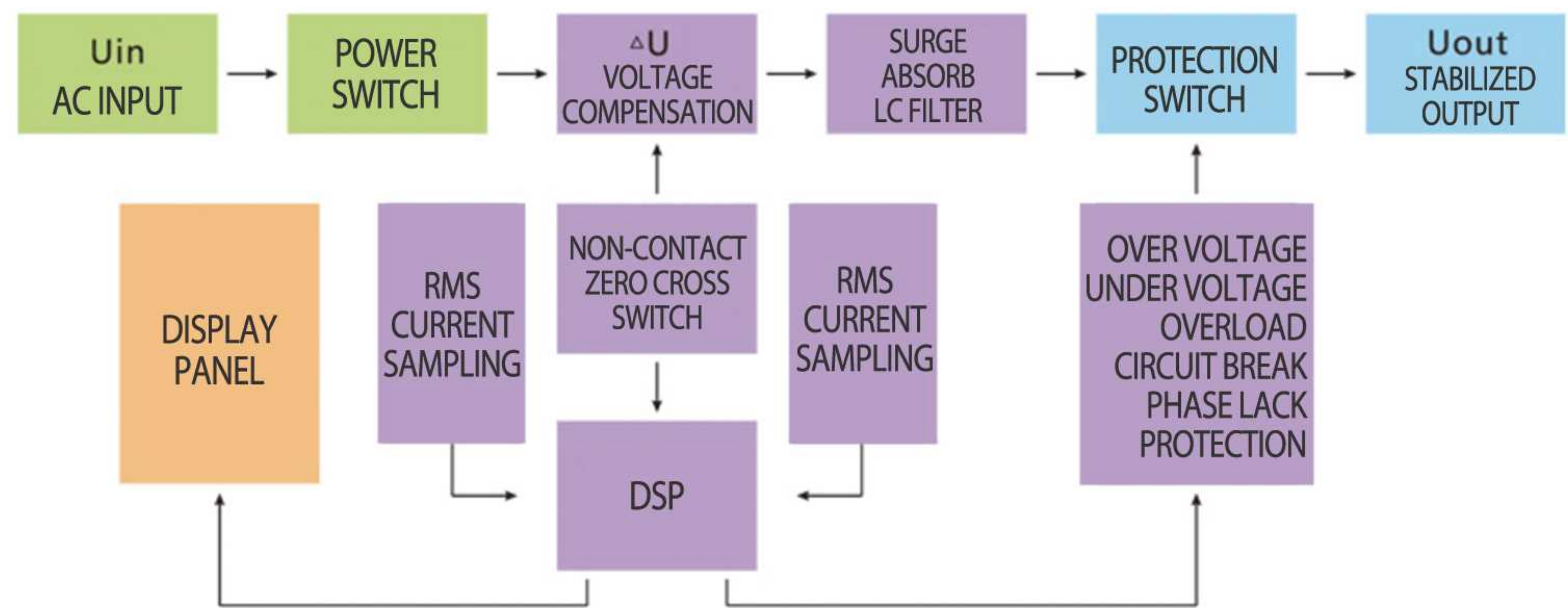
Applications for KTAC products include most electrical home appliances such as washing machine, fridge, freezer, TV, fans, Air conditioner, lighting products, stage power supply, personal computers, servers, data center, office electrical equipments, factory electrical equipments and machineries, marine boats, cars, trucks, commercial centers, hotels, residential lighting, automation control system.

With perseverant concentration in power supply and profound understanding of manufacturing and deep awareness of importance of product quality and reliability, KTAC is confident of our ability to support your requirements by providing the highest quality and reliable products, delivered on time, and at competitive prices. Whether it's an industrial, commercial, residential application, KTAC is uniquely positioned to provide products with engineering innovation, proven quality, and high reliability.



SCR CONTROL STATIC TYPE VOLTAGE REGULATOR
SBWZ SERIES

WORKING PRINCIPLE



SINGLE PHASE SERVO MOTOR AVR SVC

SBWZ three phase non contact voltage stabilizer is a fast speed automatic voltage regulator based on DSP CPU controlling, fast AC sampling, effective value correction, zero current transition and fast compensation stabilization technology. It consists of the isolation transformer, SCR module, CPU control unit and safety protection, the perfect combination of SCR switch technology and transformer achieved a real non contact control, safe, high efficient, energy saving and environment friendly advanced design of AC automatic voltage regulator. SBWZ series is ideal for application on electrical equipments such as production lines, lift, automation equipments, laser equipments, industrial robots, medical equipments, air conditioner, all kinds of electrical home appliances and others in factories, transportation system, telecommunication system, railway system, medical equipments, commercial lighting etc.

Model	SBWZ-30K	SBWZ-50K	SBWZ-60K	SBWZ-80K	SBWZ-100K	SBWZ-150K	SBWZ-200K	SBWZ-300K	SBWZ-400K	SBWZ-500K	SBWZ-800K	SBWZ-1000K
Capacity	30KVA	50KVA	60KVA	80KVA	100KVA	150KVA	200KVA	300KVA	400KVA	500KVA	800KVA	1000KVA
Technology	DSP controlled circuit with SCR switch technology and EI power transformer.											
Phase	Three Phase (3 phase 5 wires, L1, L2, L3, Neutral, Grounding)											
Input Voltage	3phase 380V/400V/415V±20% (wider range is available subject to special request and higher cost)											
Output Voltage	3phase 380V /400V/415V											
Output Current	45A	76A	91A	121A	152A	228A	304A	456A	608A	760A	1215A	1520A
Output Precision	Phase voltage: ±1%, Line voltage: ±1.5%											
Frequency	50/60Hz											
Efficiency	≥99%											
Isolation Grade	Grade E											
Dielectric Strength	AC 2500V/1min no flashover, no break down											
Response speed	10ms~40ms											
Waveform Distortion	<0.1% output waveform distortion, No Incremental Harmonic											
Temperature rising	Net Temperature rising: <60℃											
Regulation method	Seperative regulation of each phase, automatic balance phase output											
Display	Digital LED display, display real time phase voltage, phase current, power.											
Programmable setting	user programmable setting for over voltage, under voltage, over current, and regulation precision.											
Protection	overload, high voltage, low voltage, short circuit, over heat protection, lack p[phase protection, bypass function											
Cooling Method	Intelligent cooling fan											
Operation Temperature	-5℃~40℃											
Relative Humidity	<90%											
Dimension(mm)	450x450x860	550*500*1050	550*600*1100	550*600*1100	600*600*1250	800*650*1350	800*650*1350	800*800*1600	900*900*1650	900*900*1650	1030*1000*1970	1030*1000*1970
Gross Weight(kgs)	160	206	238	265	308	435	487	681	766	886	1500	1850
Remarks:	The above specifications are based on factory standard specifications, customized designs are available subject to confirmation											

Ideally use for





3 PHASE SERVO MOTOR TYPE AUTOMATIC VOLTAGE REGULATOR
SBW SERIES



3 P SERVO MOTOR AVR SBW SERIES

SBW three phase servo motor type automatic voltage stabilizer is a traditional automatic voltage regulator based on servo motor transformer and carbon brush regulation. CPU control based integrated circuit board adopt seperative regulation of each phase in order to achieve maximum voltage balance of three phase output. SBW series is a mature design AVR with very good competitive edge in cost. SBW series is ideal for application on electrical equipments such as production lines, lift, automation equipments, laser euipments, industrial robots,medical equipments. air conditioner, all kinds of electrical home appliances and others in factories, transportation system, telecommunication system, railway system, medical equipments, commercial lighting etc.



Model	SBW-10K	SBW-15K	SBW-20K	SBW-30K	SBW-50K	SBW-60K	SBW-80K	SBW-100K	SBW-120K	SBW-150K
Capacity	10KVA	15KVA	20KVA	30KVA	50KVA	60KVA	80KVA	100KVA	120KVA	150KVA
Technology	Servo motor type									
Phase	Three Phase									
Input Voltage	380V/400V/415V±20% (wider range is available subject to special request and higher cost)									
Output Voltage	380V/400V/415V									
Output Precision	0.03									
Frequency	50/60Hz									
Efficiency	≥96%									
Isolation Grade	Grade A									
Dielectric Strength	AC 2000V/1min no flashover, no break down									
Response speed	0.1s									
Waveform Distortion	<0.1% output waveform distortion,No Incremental Harmonic									
Temperature rising	Net Temperature rising: <60℃									
Regulation method	Seperative regulation of each phase, automatic balance phase output									
Display	Digital LED display, display real time phase voltage									
Wiring	Three phase four wire(A,B,C Neutral,Grounding)									
Protection	overload,high voltage, low voltage, short circuit, over heat protection,lack pihase protection,bypass function									
Cooling Method	Intelligent cooling fan									
Operation Temperature	-5℃~40℃									
Relative Humidity	<90%									
Dimension(mm)	500*380*670	500*380*670	500*380*670	500*380*670	600*455*800	600*455*800	630*500*850	700*550*1300	700*550*1300	700*550*1300
Net Weight(kgs)	42	50	82	90	120	125	145	175	410	450
Remarks:	The above specifications are based on factory standard specifications, customized designs are available subject to confirmation.									

Ideally use for





SINGLE PHASE SERVO MOTOR TYPE VOLTAGE REGULATOR
SVC SERIES



SINGLE PHASE SERVO MOTOR AVR SVC

SVC Single phase servo motor type automatic voltage stabilizer is a traditional automatic voltage regulator based on servo motor transformer and carbon brush regulation. CPU control based integrated circuit board detect the input voltage and control the moving of the carbon brush accurately to achieve stabilized output voltages. SVC series is a mature design AVR with very good competitive edge in cost. SVC series is ideal for civil application on electrical equipments such as lift, air conditioners, heaters, electrical stoves, large freezers and whole house voltage management.

Model	SVC-10KVA	SVC-15KVA	SVC-20KVA	SVC-30KVA	SVC-40KVA	SVC-50KVA
Capacity	10KVA	15KVA	20KVA	30KVA	40KVA	50KVA
Technology	Servo motor type					
Phase	Single Phase					
Input Voltage	100-255V					
Output Voltage	220V					
Output Precision	±3%					
Frequency	50/60Hz					
Efficiency	≥96%					
Isolation Grade	Grade A					
Dielectric Strength	AC 2000V/1min no flashover, no break down					
Response speed	0.1s					
Waveform Distortion	<0.1% output waveform distortion, No Incremental Harmonic					
Temperature rising	Net Temperature rising: <60℃					
Regulation method	Servo motor control with integrated MCU					
Display	LCD display					
Wiring	Single phase three wire(Live, Neutral, Grounding)					
Protection	overload, high voltage, low voltage, short circuit, over heat protection					
Cooling Method	Intelligent cooling fan					
Operation Temperature	-5℃ ~40℃					
Relative Humidity	<90%					
Dimension(mm)	500*380*620	500*380*620	500*380*620	500*380*620	500*380*620	500*380*620
Net Weight(kgs)	42	52	62	88	102	110
Remarks:	The above specifications are based on factory standard specifications, customized designs are available subject to confirmation.					

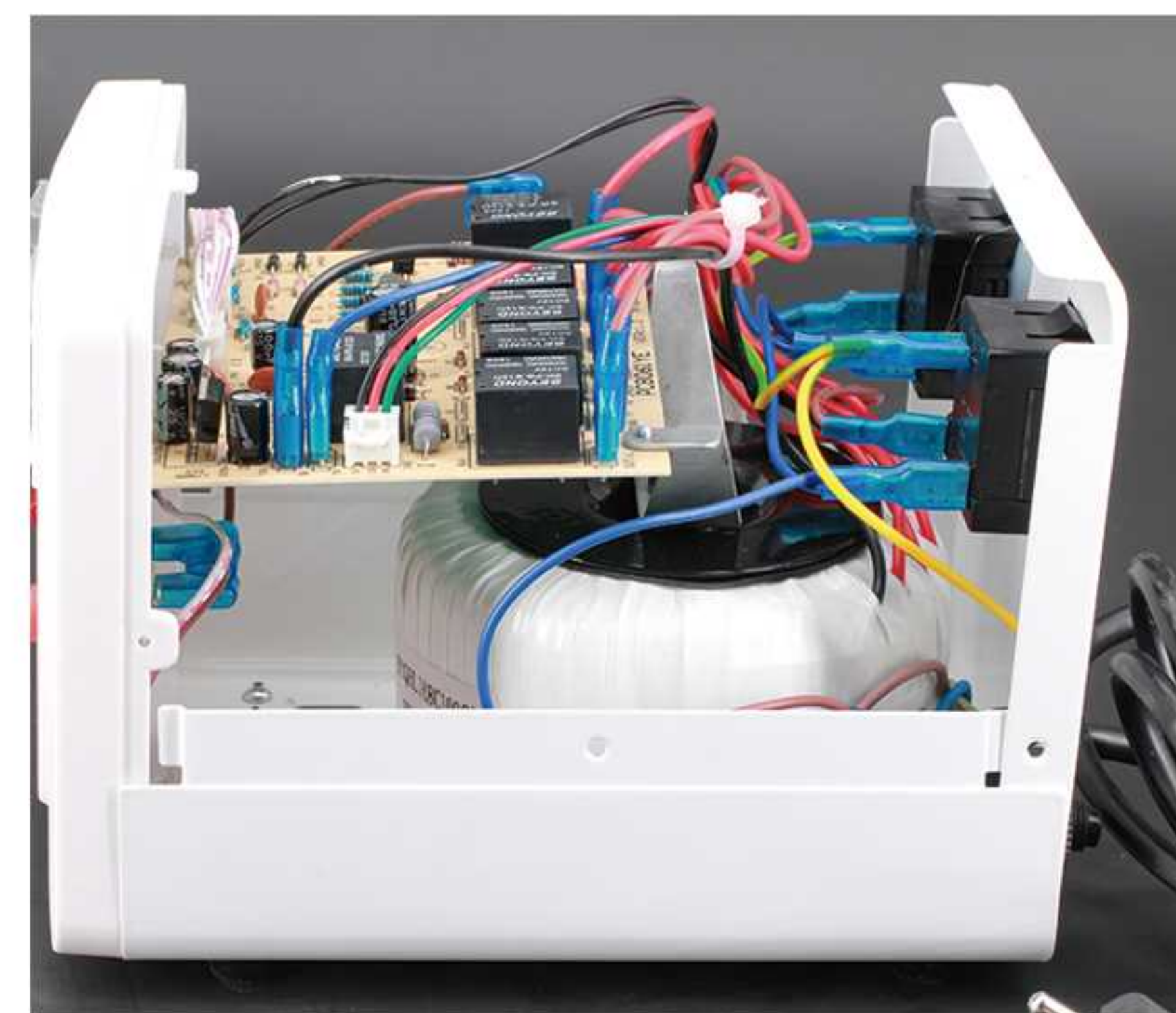
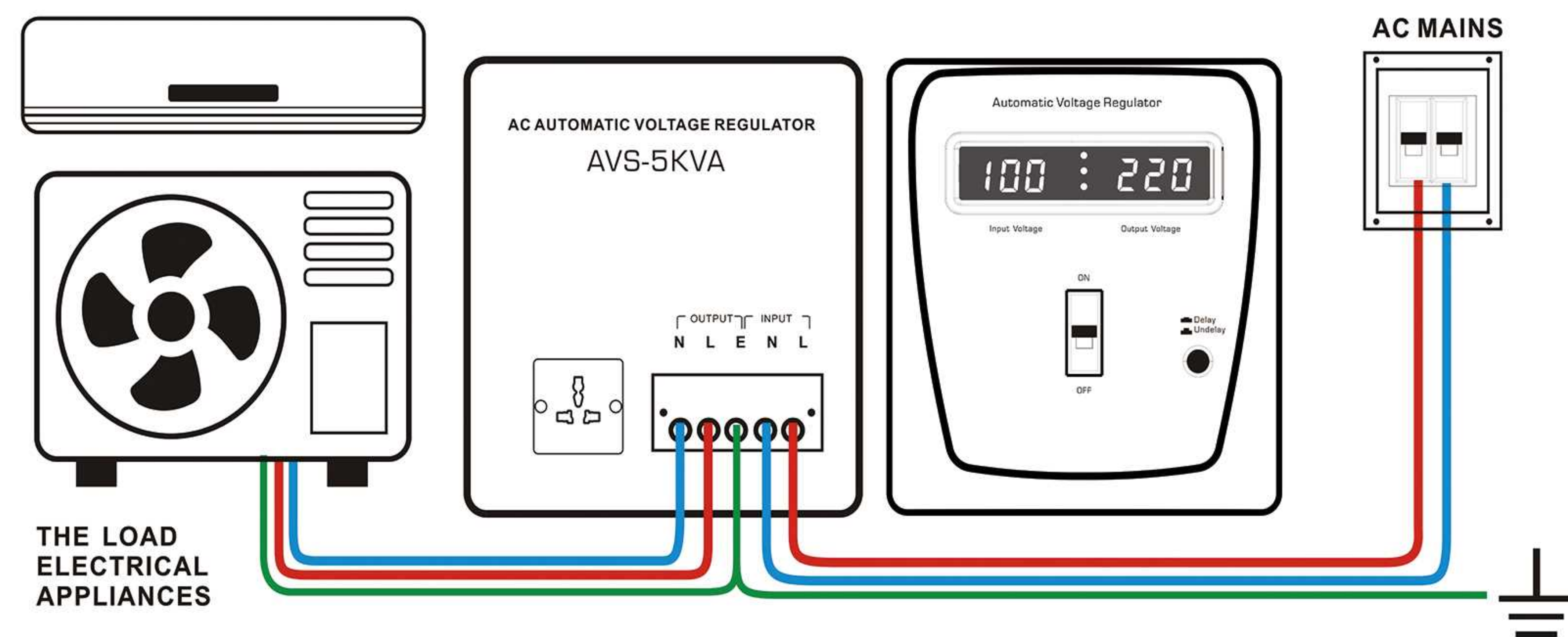
Ideally use for





RELAY CONTROL AVS-PLUS SERIES

This tower type AC automatic voltage regulator **AVS-PLUS** series is designed based on advanced MCU controlled circuit, it detects the input utility voltage to automatically stabilize the output voltage as precise as $\pm 8\%$. Current based zero cross switching technology guarantees fast response in voltage stabilization. High efficiency toroidal transformer makes the AVS series compact in size and reliable in performance. Program based protection mechanism effectively protect the stabilizer and the electrical appliances from over voltage, under voltage, over heat, over current and over load damage.



product mix

freezer

refridgerator

Model	AVS-500PLUS	AVS-1000PLUS	AVS-1500PLUS	AVS-2000PLUS	AVS-3000PLUS	AVS-5000PLUS	AVS-8000PLUS	AVS-10000PLUS
Nominal Power	500VA	1000VA	1500VA	2000VA	3000VA	5000VA	8000VA	10000VA
Rated Power	300W	600W	900W	1200W	1800W	3000W	4800W	6000W
Power Factor	0.6							
Input								
Regulation Voltage	100~270VAC							
Connection Type	Power cord with plug				Input terminal block			
Output								
Output Voltage Range	180~255VAC							
High Cut Voltage	255V	255V	255V	255V	255V	255V	255V	255V
Low Cut Voltage	180V	180V	180V	180V	180V	180V	180V	180V
Frequency	50/60Hz Auto Sense							
Safety Cycle	6 Seconds / 180 Seconds Selectable							
Connection Type	Output sockets				Output terminal block			
Regulation								
Regulation %	± 8% (when input 100~270VAC)							
Number of Taps	7 taps							
Transformer Type	Toroidal auto transformer							
Regulation Type	Relay type							
Indicators								
LED indicators	POWER: Green LED ON, Delaying: Yellow LED ON, Fault / Protection: Red LED ON							
Voltage Meter	1 input & 1 output LED volt meter							
Protection								
Over Temperature	Auto Shutdown at 120 °C							
Short Circuit	Auto Shutdown							
Breaker / Fuse	5A	7A	10A	12A	16A	25A	40A	50A
Overload	Auto Shutdown							
Over / Under Voltage	Auto Shutdown							
Physical								
Dimension	210x155x155(mm)		210x155x190(mm)		330x225x265(mm)		405x260x310(mm)	
Net weight	2.3kgs	3.3kgs	4.0kgs	4.9kgs	6.8kgs	8.6kgs	13.5kgs	15.5kgs

Ideally use for





**RELAY CONTROL
AVR-WG SERIES**



**Function 1
Delay Protection**

Selectable delay time 6s or 180s before start to protect electrical appliances due to instantaneous voltage impact from Mains Supply



**Function 4
Overheat Protection**

There have a temperature sensor built in the coil of transformer, The device would be protected when its temperature reaches 120 degree. LED shows "OH"



**Function 2
Overload Protection**

When the load power reaches 120%, Or the temperature reaches 120 degree, The AVR protected automatically and LED shows "OL"



**Function 3
Under Voltage Protection**

When the output voltage under 185V The AVR protected automatically, output LED shows "L" Device sounds beep beep beep.



**Function 5
Short Circuit Protection**

When the output voltage over 250V, The AVR protected automatically, LED shows "H", Device sounds beep beep beep.



**Function 6
Over Voltage Protection**

When the output voltage over 250V, The AVR protected automatically, LED shows "H", Device sounds beep beep beep.



product mix



freezer



refridgator

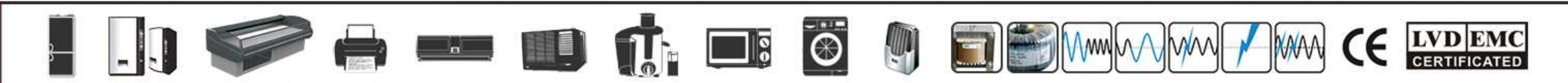


RELAY CONTROL AVR-WG SERIES

This Wall mount type AC automatic voltage regulator is designed based on advanced MCU controlled circuit, it detects the input utility voltage to automatically stabilize the output voltage as precise as $\pm 8\%$. Current based zero cross switching technology guarantees fast response in voltage stabilization. High efficiency toroidal transformer makes the AVR-G series compact in size and reliable in performance. Program based protection mechanism effectively protect the stabilizer and the electrical appliances from over voltage, under voltage, over heat, over current and over load damage.

Model	AVR-500WG	AVR-1000WG	AVR-1500WG	AVR-2000WG	AVR-3000WG	AVR-5000WG	AVR-8000WG	AVR-10000WG
Nominal Power	500VA	1000VA	1500VA	2000VA	3000VA	5000VA	8000VA	10000VA
Rated Power	300W	600W	900W	1200W	1800W	3000W	4800W	6000W
Power Factor	0.6~1.0							
Input								
Regulation Voltage	100~260VAC							
Connection Type	Power cord with plug				Input terminal block			
Output								
Output Voltage	180~255VAC							
High Cut Voltage	255V	255V	255V	255V	255V	255V	255V	255V
Low Cut Voltage	180V	180V	180V	180V	180V	180V	180V	180V
Frequency	50/60Hz Auto Sense							
Safety Cycle	6 Seconds / 180 Seconds Selectable							
Connection Type	Output sockets				Output terminal block			
Regulation								
Regulation %	± 8% (when input 100~260VAC)							
Number of Taps	7 taps							
Transformer Type	Toroidal auto transformer							
Regulation Type	Relay type							
Indicators								
LED indicators	POWER: Green LED ON, Delaying: Yellow LED ON, Fault / Protection: Red LED ON							
Voltage Meter	1 input & 1 output LED volt meter							
Protection								
Over Temperature	Auto Shutdown at 120 °C							
Short Circuit	Auto Shutdown							
Breaker / Fuse	5A	7A	10A	12A	20A	25A	40A	50A
Overload	Auto Shutdown							
Over / Under Voltage	Auto Shutdown							
Physical								
Dimension	180*170*100mm		210*170*100mm		260*220*125mm		380*308*160mm	
Net weight	2.4kgs	3.5kgs	4.2kgs	5.1kgs	6.9kgs	9.2kgs	13.5kgs	15.8kgs

Ideally use for



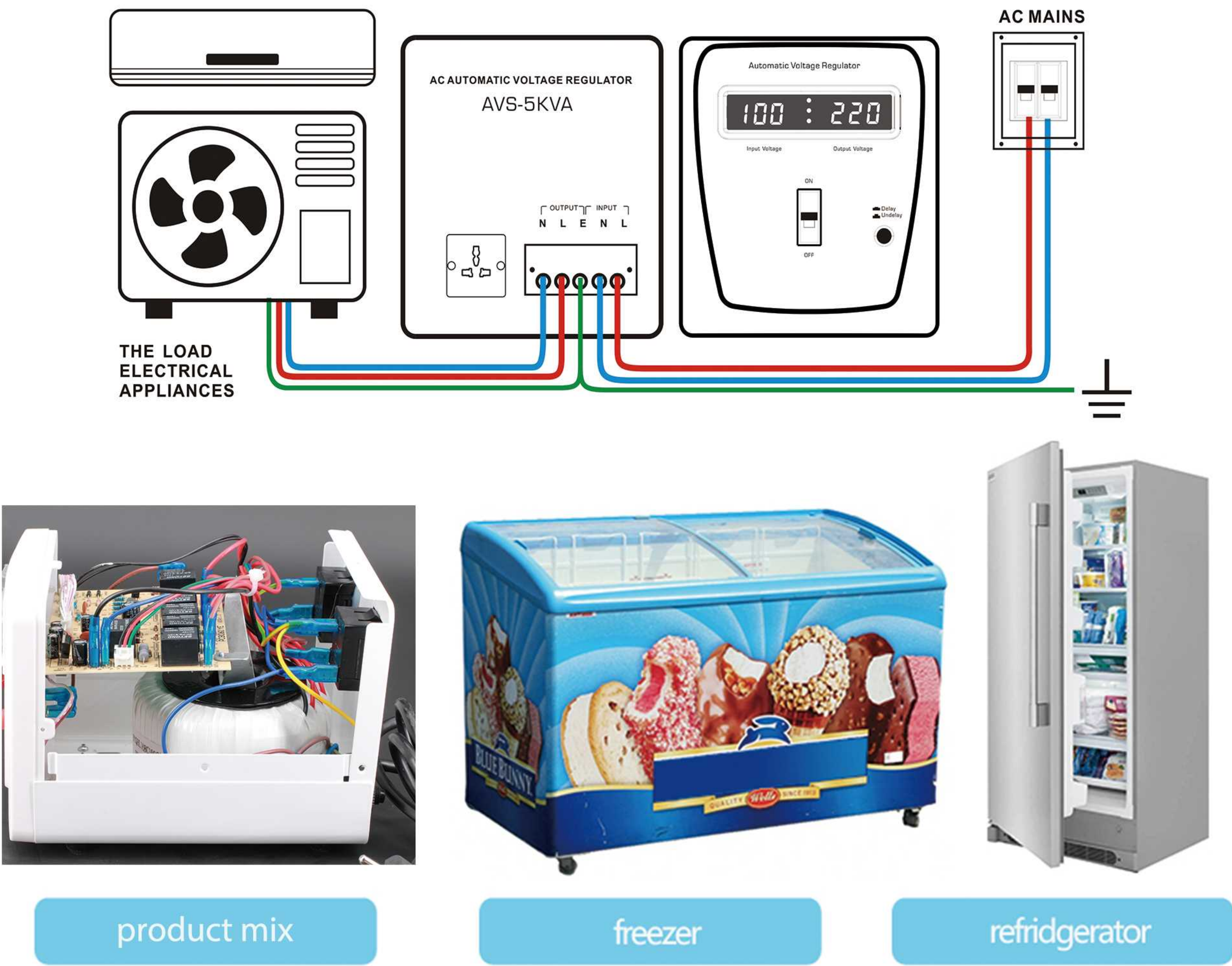


RELAY CONTROL
AVS-PRO SERIES



RELAY CONTROL AVS-PRO SERIES

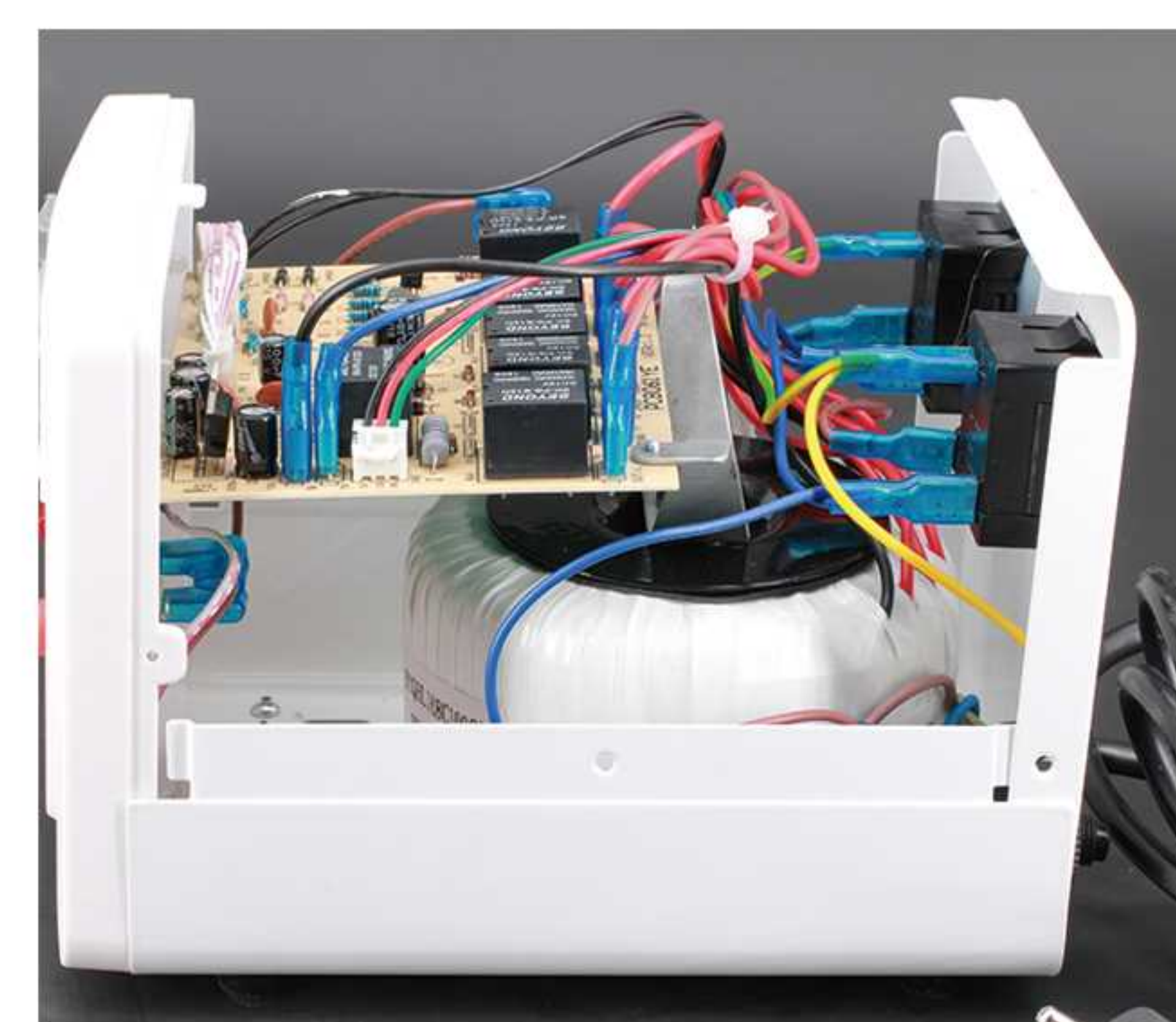
This tower type AC automatic voltage regulator **AVS-PRO** series is designed based on advanced MCU controlled circuit, it detects the input utility voltage to automatically stabilize the output voltage as precise as $\pm 8\%$. Current based zero cross switching technology guarantees fast response in voltage stabilization. High efficiency toroidal transformer makes the AVS series compact in size and reliable in performance. Program based protection mechanism effectively protect the stabilizer and the electrical appliances from over voltage, under voltage, over heat, over current and over load damage.



Model	AVS-500PRO	AVS-1000PRO	AVS-1500PRO	AVS-2000PRO	AVS-3000PRO	AVS-5000PRO	AVS-8000PRO	AVS-10000PRO
Nominal Power	500VA	1000VA	1500VA	2000VA	3000VA	5000VA	8000VA	10000VA
Rated Power	400W	800W	1200W	1600W	2400W	4000W	6400W	8000W
Power Factor	0.8							
Input								
Regulation Voltage	80~270VAC							
Connection Type	Power cord with plug				Input terminal block			
Output								
Output Voltage Range	180~255VAC							
High Cut Voltage	255V	255V	255V	255V	255V	255V	255V	255V
Low Cut Voltage	180V	180V	180V	180V	180V	180V	180V	180V
Frequency	50/60Hz Auto Sense							
Safety Cycle	6 Seconds / 180 Seconds Selectable							
Connection Type	Output sockets				Output terminal block			
Regulation								
Regulation %	± 8% (when input 80~270VAC)							
Number of Taps	7 taps							
Transformer Type	Toroidal auto transformer							
Regulation Type	Relay type							
Indicators								
LED indicators	POWER: Green LED ON, Delaying: Yellow LED ON, Fault / Protection: Red LED ON							
Voltage Meter	1 input & 1 output LED volt meter							
Protection								
Over Temperature	Auto Shutdown at 120 °C							
Short Circuit	Auto Shutdown							
Breaker / Fuse	5A	7A	10A	12A	16A	25A	40A	50A
Overload	Auto Shutdown							
Over / Under Voltage	Auto Shutdown							
Physical								
Dimension	210*155*155mm		210*155*190mm		330*225*265mm		405*260*310mm	
Net weight	2.6kgs	3.8kgs	4.6kgs	5.6kgs	7.8kgs	9.9kgs	15.5kgs	17.8kgs

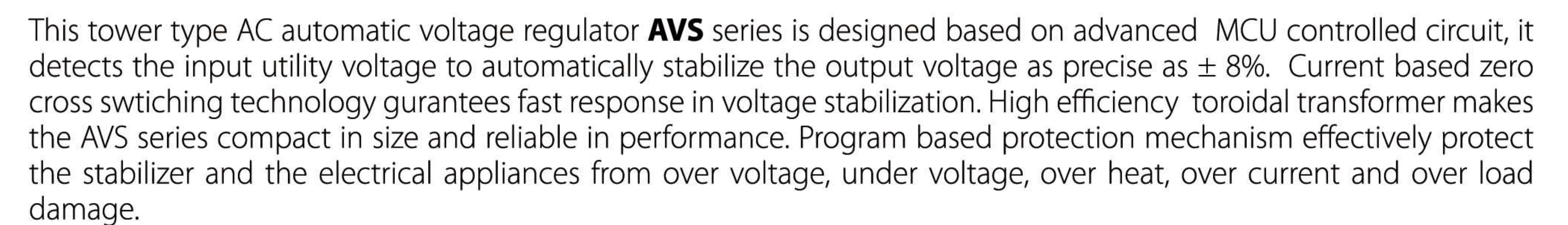
Ideally use for



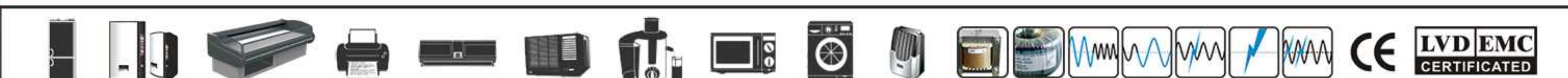


A large, blue, walk-in style ice cream display case. The front panel features a large graphic of several ice cream treats, including a chocolate cone, a vanilla wafer sandwich, a chocolate sandwich, and a chocolate bar. The Blue Bunny logo is prominently displayed in the center of the front panel. The top of the case is open, revealing multiple compartments for different ice cream products. The case is on wheels and has a sturdy metal frame.

refridgerator



Ideally use for





WALL MOUNTL
AVS-P SERIES



Function 1
Delay Protection

Selectable delay time 6s or 180s before start to protect electrical appliances due to instantaneous voltage impact from Mains Supply



Function 4
Overheat Protection

There have a temperature sensor built in the coil of transformer, The device would be protected when its temperature reaches 120 degree. LED shows "OH"



Function 2
Overload Protection

When the load power reaches 120%, Or the temperature reaches 120 degree, The AVR protected automatically and LED shows "OL"



Function 5
Short Circuit Protection

When the output voltage over 250V, The AVR protected automatically, LED shows "H", Device sounds beep beep beep.



Function 3
Under Voltage Protection

When the output voltage under 185V The AVR protected automatically, output LED shows "L" Device sounds beep beep beep.



Function 6
Over Voltage Protection

When the output voltage over 250V, The AVR protected automatically, LED shows "H", Device sounds beep beep beep.



product mix



freezer



refridgator



WALL MOUNTL AVS-P SERIES

This Wall mount AC automatic voltage regulator is designed based on advanced MCU controlled circuit, it detects the input utility voltage to automatically stabilize the output voltage as precise as $\pm 8\%$. Current based zero cross switching technology guarantees fast response in voltage stabilization. High efficiency toroidal transformer makes the AVR-G series compact in size and reliable in performance. Ideal for power protection for home electrical appliances.

Model	AVS-500P	AVS-1000P	AVS-1500P	AVS-2000P	AVS-3000P	AVS-5000P	AVS-8000P	AVS-10000P
Nominal Power	500VA	1000VA	1500VA	2000VA	3000VA	5000VA	8000VA	10000VA
Rated Power	300W	600W	900W	1200W	1800W	3000W	4800W	6000W
Power Factor	0.6~1.0							
Input								
Regulation Voltage Range	140~260V/ 100~260VAC							
Connection Type	Power cord with plug				Input terminal block			
Output								
Output Voltage Range	180~255VAC							
High Cut Voltage	255V	255V	255V	255V	255V	255V	255V	255V
Low Cut Voltage	180V	180V	180V	180V	180V	180V	180V	180V
Frequency	50/60Hz Auto Sense							
Safety Cycle	6 Seconds / 180 Seconds Selectable							
Connection Type	Output sockets				Output terminal block			
Regulation								
Regulation %	± 8% (when input 100~260VAC)							
Number of Taps	7 taps							
Transformer Type	Toroidal auto transformer							
Regulation Type	Relay type							
Indicators								
LED indicators	POWER: Green LED ON, Delaying: Yellow LED ON, Fault / Protection: Red LED ON							
Voltage Meter	1 input & 1 output LED volt meter							
Protection								
Over Temperature	Auto Shutdown at 120 °C							
Short Circuit	Auto Shutdown							
Breaker / Fuse	5A	7A	10A	12A	20A	25A	40A	50A
Overload	Auto Shutdown							
Over / Under Voltage	Auto Shutdown							
Physical								
Dimension	180*170*100mm		210*170*100mm		260*220*125mm		380*308*160mm	
Net weight	2.4kgs	3.5kgs	4.2kgs	5.1kgs	6.9kgs	9.2kgs	13.5kgs	15.8kgs

Ideally use for





Model	AVR-500G	AVR-1000G	AVR-1500G	AVR-2000G	AVR-3000G	AVR-5000G	AVR-8000G	AVR-10000G	AVR-20000G
Nominal Power	500VA	1000VA	1500VA	2000VA	3000VA	5000VA	8000VA	10000VA	20000VA
Rated Power	300W	600W	900W	1200W	1800W	3000W	4800W	6000W	12000W
Power Factor	0.6~1.0								
Input									
Regulation Voltage Range	100~260VAC								
Connection Type	Power cord with plug				Input terminal block				
Output									
Output Voltage Range	180~255VAC								
High Cut Voltage	255V	255V	255V	255V	255V	255V	255V	255V	290±2VAC
Low Cut Voltage	180V	180V	180V	180V	180V	180V	180V	180V	90VAC
Frequency	50/60Hz Auto Sense								
Safety Cycle	6 Seconds / 180 Seconds Selectable								
Connection Type	Output sockets				Output terminal block				
Regulation									
Regulation %	± 8% (when input 100~260VAC)								
Number of Taps	7 taps								
Transformer Type	Toroidal auto transformer								
Regulation Type	Relay type								
Indicators									
LED indicators	POWER: Green LED ON, Delaying: Yellow LED ON, Fault / Protection: Red LED ON								
Voltage Meter	1 input & 1 output LED volt meter								
Protection									
Over Temperature	Auto Shutdown at 120 °C								
Short Circuit	Auto Shutdown								
Breaker / Fuse	5A	7A	10A	12A	20A	25A	40A	50A	63A
Overload	Auto Shutdown								
Over / Under Voltage	Auto Shutdown								
Physical									
Dimension	200*150*140mm		200*160*190mm		280*200*225mm		410*280*310mm		
Net weight	2.3kgs	3.3kgs	4.0kgs	4.9kgs	6.8kgs	8.6kgs	13.5kgs	15.5kgs	28.50kgs



refridgerator



RELAY CONTROL VR-U SERIES

Model	VR-U500	VR-U1000	VR-U1500	VR-U2000	VR-U3000	VR-U5000	VR-U8000	VR-U10000
Nominal Power	500VA	1000VA	1500VA	2000VA	3000VA	5000VA	8000VA	10000VA
Rated Power	300W	600W	900W	1200W	1800W	3000W	4800W	6000W
Power Factor	0.6							
Input								
Regulation Voltage	130~270VAC/100~270VAC							
Connection Type	Power cord with plug				Terminal block			
Output								
Output Voltage Range	180~255VAC							
High Cut Voltage	255V	255V	255V	255V	255V	255V	255V	255V
Low Cut Voltage	180V	180V	180V	180V	180V	180V	180V	180V
Frequency	50/60Hz Auto Sense							
Safety Cycle	6 Seconds / 180 Seconds Selectable							
Connection Type	Output sockets				Output terminal block			
Regulation								
Regulation %	± 8% (when input 130~270VAC)							
Number of Taps	5 taps / 7 taps							
Transformer Type	Toroidal auto transformer							
Regulation Type	Relay type							
Indicators								
LED indicators	POWER: Green LED ON, Delaying: Yellow LED ON, Fault / Protection: Red LED ON							
Voltage Meter	1 input & 1 output LED volt meter							
Protection								
Over Temperature	Auto Shutdown at 120 °C							
Short Circuit	Auto Shutdown							
Breaker / Fuse	5A	7A	10A	12A	16A	25A	40A	50A
Overload	Auto Shutdown							
Over / Under Voltage	Auto Shutdown							
Physical								
Dimension	210*155*155mm		210*155*190mm		330*225*265mm		405*260*310mm	
Net weight	2.3kgs	3.3kgs	4.0kgs	4.9kgs	6.8kgs	8.6kgs	13.5kgs	15.5kgs

Ideally use for

