

Programmable AC Power Source 10~2000kVA



- Output Power
 - 10-2000kva
- Multiple Programmable Features
- ▼ Fast Response Time

- 7 inches Touch Screen
- Three Phase Independent Control
- ▼ Soft Start Feature

- Efficiency
 - >85%-90%
- Complete Interface Options: RS232 / RS485 / GPIB
- ▼ Complete Protection

AFV series



Programmable AC Power Source

Preen' s AFV series is a programmable AC power supply, provides complete output voltage and output frequency to achieve various types of industrial requirements. Additionally, the AFV series provides programmable features, such as STEP feature and GRADUAL feature, which are ideal for R&D and compliance test.

With the advanced SPWM and DDS waveform technology, the AFV series provides high quality and stable output with output level up to 2000kVA. The AFV series adopts the touch screen to support user operation, which provides impressive users experience while operating the product. Users are allowed to remotely control the product via the standard interface: RS485 or the optional interface: RS232/GPIB. Additionally, the AFV series provides complete product protection, such as OVP, UVP, OCP, OPP, OTP and short circuit protection, and the product will immediately alarm users and stop the product output while the product protection is enabled.

High Output Power

10-2000kVA

High Efficiency

>85%-90%

Multiple Programmable Features

STEP/GRADUAL

7" Touch Screen

Touch Screen Operation

Ideal for Motor Testing

Soft Start Feature

Complete Protection

OVP/UVP/OCP/OPP/OTP

High Power AC Source

Applications







Switching Power Supply







EMC Chamber

Intuitive Touch Screen



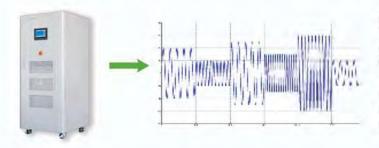
Users are allowed to operate the product via the touch screen on the front panel, which provides an easy operation for users to quickly set the product output.

Three Phase Independent Control (opt.)



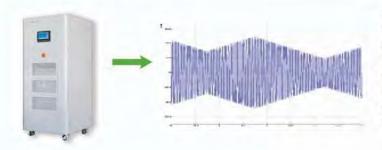
Users are allowed to control three-phase output voltage and output frequency independently. The product can be used as one unit of three-phase power supply or as three units of single-phase power supply.

STEP Feature



Preen AFV series provides up to 24 sequences in the STEP feature. Through the STEP feature, users are allowed to set the product output, such as output voltage, output frequency and dwell time of performing the STEP feature in each of the adjustable sets, and then the product output will change step by step accordingly. Additionally, the product can automatically repeat the STEP feature according to the setting product output up to 255 times, which is suitable for electric motor and home application test.

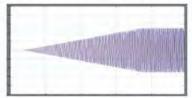
GRADUAL Feature



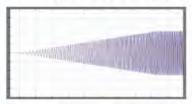
Preen AFV series provides up to 12sequences in the the GRADUAL feature. Through the GRADUAL feature, users are allowed to set the product output, such as start/end output voltage, start/end output frequency and dwell time of performing the GRADUAL feature in each of the adjustable sets, and then the product output will change according to the setting slew rate. Additionally, the product can automatically repeat the GRADUAL feature according to the setting product output up to 255 times.

Soft Start Feature (optional)

Variable Voltage Constant Frequency (VVCF) / Variable Voltage Variable Frequency (VVVF)







Variable Voltage Variable Frequency (VVVF)

With the soft start feature, the product effectively reduces inrush current generated while turning on inductive loads, such as motor and air conditioning compressor and etc. Accordingly, the product is suitable for electric motor industries to run reliability test.

AFV Series: Three-Phase Input / Single-Phase Output (10-120KVA)

Model		AFV-31010	AFV-31015	AFV-31030	AFV-31045	AFV-31060	AFV-31080	AFV-31100	AFV-31120				
Power (kVA)		10	15	30	45	60	80	100	120				
	Phase		3Ø4W + G										
Input	Voltage 1		115V/200V, 120V/208V, 220V/380V, 230V/400V, 240V/415V or 277V/480V $\;\;$; Rated Input Voltag $\pm15\%$										
	Frequency Range					47~	63Hz						
	Power Factor				0.9				085				
	Max. Current 2		18.7	28.1	56.1	84.2	112.2	167.8	209.7	251.7			
	Phase				1Ø2W + G								
	Voltage	Low(V)		0V~150.0V (L-N)									
	voltage	High(V)			0V~300.0V (L-N)								
Output	Frequency Range		45~65Hz (opt. 45~500Hz)										
	Frequency Regulation			≤0.01%									
	Maximum	High(A)	41.7	62.5	125.0	187.5	250.0	333.3	416.7	500.0			
	Current	Low(A)	83.3	125.0	250.0	375.0	500.0	666.7	833.3	1000.0			
	Line Regulation			<1%									
	Load Regulation		±1% (Resistive Load)										
	THD		≤2% (Resistive Load)										
System	Efficiency				≥90%				≥85%				
	Response Time			≤2ms									
	Crest Factor			3:1									
	Protection			OVP, UVP, OCP, OPP, OTP and Short Circuit Protection									
	Voltage			Voltage: Resolution: 0.1V; Accuracy: 0.5% F.S. + 4 Counts									
Measurement	Current			Resolution: 0.1A; Accuracy: 0.5% F.S.+ 4 Counts									
	Frequency			Resolution: 0.1Hz; Accuracy: 0.5% F.S. + 4 Counts									
Remote Interface			RS-485: Standard RS-232/GPIB: Optional										
General	Opertional Temp.				0°C~45°C								
	Humidity				0~90% (Non-condensing)								
	Altitude					<15	00m						
Dimensions (W*D*H) mm (3)		0		2	Q	3)	(4)		5)				
Weight(kg)	6		240	290	360	580	670	830	935	1092			

AFV Series: Three-Phase Input / Three-Phase Output (10~100kVA)

Model		AFV-33010	AFV-33015	AFV-33030	AFV-33045	AFV-33060	AFV-33080	AFV-33100					
Power (kVA)		10	15	30	45	60	80	100					
	Phase	304W + G											
Input	Voltage (1)	1	15V/200V, 120V/208V	, 220V/380V, 230V/4	00V, 240V/415V or 27	7V/480V ; Rated Ir	put Voltag $\pm15\%$						
	Frequency Range				47~63Hz								
	Power Factor			0.9			0.	85					
	Maximmum Current 2	18.7	28.1	56.1	84.2	112.2	167.8	198.1					
	Phase				3Ø4W + G								
	Voltage Low(V)				0V~150.0V (L-N)								
	High(V)				0V~300.0V (L-N)								
Output	Frequency Range			45-	~65Hz (opt. 45~500Hz)							
	Frequency Regulation				≤0.01%								
	Maximum High(A)	13.9	20.8	41.7	62.5	83.3	111.1	138.9					
	Current Low(A)	27.8	41.7	83.3	125.0	166.7	222.2	277.8					
	Line Regulation				<1%								
	Load Regulation		±1% (Resistive Load)										
	THD				≤2% (Resistive Lo	ad)							
System	Efficiency			≥90%			≥85%						
	Response Time				≤2ms								
	Crest Factor				3:1								
	Protection			OVP, UVP, OCP,	OPP, OTP and Short (Circuit Protection							
Measurement	Voltage				on: 0.1V; Accuracy: 0.5								
	Current			Resolutio	on: 0.1A; Accuracy: 0.5	% F.S.+ 4 Counts							
Frequency				Resolutio	on: 0.1Hz; Accuracy: 0.	5% F.S. + 4 Counts							
Remote Interface				RS-485: 5	Standard RS-232/GPI	B: Optional							
General	Opertional Temperature				0°C~45°C								
	Humidity			C	~90% (Non-condens	sing)							
	Altitude				<1500m								
Dimensions (W*D*H) mm 3			2			3		1)					
Weight(kg) 🔒		300	310	410	580	670	890	960					

AFV Series: Three-Phase Input / Three-Phase Output (120~1600kVA)

Model		AFV-33120	AFV-3316	0 AFV-33240	AFV-33300	AFV-33400	AFV-33500	AFV-33640	AFV-33800	AFV-331000	AFV-331200	AFV-3316		
Power (kVA)		120	160	240	300	400	500	640	800	1000	1200	1600		
	Phase						3Ø4W + G							
Input	Voltage 1		115V	/200V, 120V/2	08V, 220V/380	V, 230V/400V,	240V/415V or	r 277V/480V	; Rated In	put Voltag ±	15%			
	Frequency Rang	2					47~63Hz							
	Power Factor						0.85							
	Maximmum Current	251.7	335.5	503.3	629.1	838.8	1048.5	1342.1	1677.7	2097.1	2516.5	3355.4		
	Phase						3Ø4W + G							
	Low(V))				0\	~150.0V (L-N	1)						
	Voltage High(/)				0\	~300.0V (L-N	١)						
Output	Frequency Range		45~65Hz (opt. 45~500Hz)											
	Frequency Regulation	on					≤ 0.01%							
	Maximum High(A	166.7	222.2	333.3	416.7	555.6	694.4	888.9	11111	1388.9	1666.7	2222.2		
	Current Low(A) 333.3	444.4	666.7	833.3	1111.1	1388.9	1777.8	2222.2	2777.8	3333.3	4444.4		
	Line Regulation						< 1%							
	Load Regulation		± 1% (Resistive Load)											
	THD		≤ 2% (Resistive Load)											
System	Efficiency		≥85%											
	Response Time		≤2ms											
	Crest Factor						3:1							
	Protection		OVP, UVP, OCP, OPP, OTP and Short Circuit Protection											
	Voltage		Resolution: 0.1V; Accuracy: 0.5% F.S. + 4 Counts											
Measurement	Current	Resolution: 0.1A; Accuracy: 0.5% F.S.+ 4 Counts												
	Frequency		Resolution: 0.1Hz; Accuracy: 0.5% F.S. + 4 Counts											
Remote Int	erface					RS-485: Stand	dard RS-232/	GPIB: Optional						
General	Opertional Temperatu	ire					0°C~45°C							
	Humidity		0~90% (Non-condensing)											
	Altitude						1500m							
Dimension	ns(W*D*H)mm 🧃		5		6	(7)		(8)		(9		
١	Weight(kg) 🜖	1170	1400	2220	2465	3335		-	-		-			

AFV Series Case Dimension Overview



- P.S. . 1 Please contact us for other voltage specification.
 - The rated input voltage is 220V/380V.
 - For AFV seires over 400kVA, please contact us for details.

 *All specifications are subject to change without notice

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AC POWER CORP.

Specialized in power electronics, Preen (AC Power Corp.) has been developing products based on its core technology of Power Conversion. Product Line includes AC Power Sources, DC Power Supplies, Power Supplies for Defense Industry, Renewable Energy Simulators, Line Conditioners and UPS. Boasting one of the broadest product line in the industries, Preen specializes in High Power Source and has developed AC power source up to 2MVA with high power density.

Product Lines



- Up to 1000Hz
- 500VA ~ 2,000kVA
- Regenerative Function



- Up to 2,000V
- 2kW ~ 300kW
- Fast Response & Low Ripple

Power Conditioner UPS

- Solid State & Inductive types
- Up to 1500kVA

Applications



Renewable Energy



Laboratory



Aircraft Manufacturing



Transport System



EMC Chamber



Medical Equipment



Control Room/ Data Center



Electronics



ATE System



Airport Apron / Hangar



Home Appliance



Motor / Engine



Communication Equipment



Military Aircraft / Helicopter



Navy System



Defense Equipment

