

Programmable AC Power Source 10~2000kVA



Up to

2000kva



Multiple Programmable Features

Fast Response Time

7 inches Touch Screen

- 11

Three Phase Independent Control

Soft Start Feature

Efficiency >85%-90%

 Complete Interface Options: RS232 / RS485 / GPIB

Complete Protection

AC+DC Power Solutions

AC POWER CORP www:valuetromics.com

# 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	High Efficiency	Multiple Programmable Features					
10-2000kVA	>85%-90%	STEP/GRADUAL					
7" Touch Screen	Ideal for Motor Testing	Complete Protection					
Touch Screen Operation	Soft Start Feature	OVP/UVP/OCP/OPP/OTP					
High Power AC	Source	Preen					
Applications							
Electric Motor Test	Home Applianc						
EMC Chamber	Switching Power Supply						
Product Test and R&D	Transformer Test						

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#### Intuitive Touch Screen

				Individual)	y Addam.
					Ville Holge
	220.0				LOW HIGH
	100.0		1		Operation.
W Volt.	50.0	•			RUN
	50.0				RESET

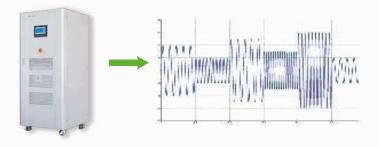
Users are allowed to operate the product via the touch screen on the front panel, which provides an easy operation for users to quickly set the product output.

#### Three Phase Independent Control (opt.)

	100.0	1	Tedivi		
Data Sett		C Phas	e-Setting		folt. Range
U Volt.	229.0				LOW HIGH
	220.0		t <sub>tet</sub>		Operation
	229.0				RUN
	50.0	•		۵	RESET

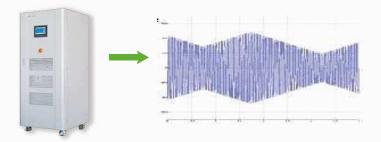
Users are allowed to control three-phase output voltage and output frequency independently. The product can be used as one unit of three-phase power supply or as three units of single-phase power supply.

#### **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.

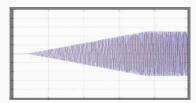
#### **GRADUAL** Feature



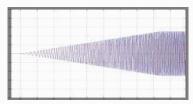
Preen AFV series provides up to 12sequences in the the GRADUAL feature. Through the GRADUAL feature, users are allowed to set the product output, such as start/end output voltage, start/end output frequency and dwell time of performing the GRADUAL feature in each of the adjustable sets, and then the 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 Constant Frequency (VVCF)



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.

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Мо	del		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 🄇	1		115V/200V, 120V	.15V/200V, 120V/208V, 220V/380V, 230V/400V, 240V/415V or 277V/480V $$ ; Rated Input Voltag $\pm$ 15%									
mput	Frequenc	quency Range 47~63Hz												
	Power Factor		0.9						0.85					
	Max. Current 🥑		18.7	28.1	56.1	84.2	112.2	167.8	209.7	251.7				
	Phase					1Ø2V								
	Voltage	Low(V)		0V~150.0V (L-N)										
	High(V)			0V~300.0V (L-N)										
		ency Range 45~65Hz (opt. 45~500Hz)												
	Frequency Regulation						01%							
	Maximum Current		41.7	62.5	125.0	187.5	250.0	333.3	416.7	500.0				
		Low(A)	83.3	125.0	250.0	375.0	500.0	666.7	833.3	1000.0				
	Line Regu Load Reg		<1%											
	THD	ulation	± 1% (Resistive Load)											
	Efficiency	,		<2% (Resistive Load) ≥90% ≥85%										
	Response		≤2ms											
	Crest Fac		3:1											
	Protectio		OVP, UVP, OCP, OPP, OTP and Short Circuit Protection											
	Voltage		Voltage: Resolution: 0.1V; Accuracy: 0.5% F.S. + 4 Counts											
	Current		Resolution: 0.1A; Accuracy: 0.5% F.S.+ 4 Counts											
	Frequenc	у	Resolution: 0.1Hz; Accuracy: 0.5% F.S. + 4 Counts											
Remote Inter	rface				R	S-485: Standard R	S-232/GPIB: Option	al						
	Opertional	Temp.				0°C	~45°C							
General	Humidity					0~90% (No	n-condensing)							
	Altitude					<15	500m							
Dimensions	(W*D*H)	mm 3	1)	(2	)	(	3)	(4)	Ē	5				
Weight(kg)	3		240	290	360	580	670	830	935	1092				

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

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

М	odel		AFV-33010	AFV-33015	AFV-33030	AFV-33045	AFV-33060	AFV-33080	AFV-33100			
Powe	er (kVA)		10	15	30	45	60	80	100			
	Phase		3Ø4W + G									
Tanut	Voltage	0	115V/200V, 120V/208V, 220V/380V, 230V/400V, 240V/415V or 277V/480V $$ ; Rated Input Voltag $\pm$ 15%									
Input	Frequency Range Power Factor		e 47~63Hz									
					0.8	85						
	Maximmum	n 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	Frequence				45~	65Hz (opt. 45~500Hz)						
	Frequency Regulation					≤0.01%						
	Maximum Current	High(A)	13.9	20.8	41.7	62.5	83.3	111.1	138.9			
		Low(A)	27.8	41.7	83.3	125.0	166.7	222.2	277.8			
	Line Regulation		<1%									
	Load Regulation		± 1% (Resistive Load)									
System	THD Efficiency		≤2% (Resistive Load)									
System	Response Time		≥90% ≥85% ≤2ms									
	Crest Factor		≈zms 3:1									
	Protection		OVP, UVP, OCP, OPP, OTP and Short Circuit Protection									
	Voltage											
Measurement	Current		Resolution: 0.14; Accuracy: 0.5% F.S.+ 4 Counts									
	Frequence	су	Resolution: 0.1Hz; Accuracy: 0.5% F.S. + 4 Counts									
Remote Int						Standard RS-232/GPIE						
	Opertional 1	Temperature				0°C~45℃						
General	Humidity				0	~90% (Non-condensi	ng)					
	Altitude					<1500m	-					
Dimension	ns (W*D*H	) mm 3		2		(	3	(4	)			
Wei	ight(kg) 🧲	3	300	310	410	580	670	890	960			

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Model		AFV-33120	AFV-33160	AFV-33240	AFV-33300	AFV-33400	AFV-33500	AFV-33640	AFV-33800	AFV-331000	AFV-331200	AFV-331600	
I	Power (kVA	4)	120	160	240	300	400	500	640	800	1000	1200	1600
	Phase			3Ø4W + G									
Input	Voltage 🚺			115V/200V, 120V/208V, 220V/380V, 230V/400V, 240V/415V or 277V/480V $$ ; Rated Input Voltag $\pm$ 15%									
input	Frequency Range			47~63Hz									
	Power Factor			0.85									
	Maximmum	n Current 2	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									
	Voltage	Low(V)						~150.0V ( L-N					
	voltage	High(V)		0V~300.0V ( L-N )									
Output	Frequency Range						45~65	6Hz (opt. 45~5	00Hz)				
	Frequency Maximum Current	5						≤ 0.01%					
			166.7	222.2	333.3	416.7	555.6	694.4	888.9	1111.1	1388.9	1666.7	2222.2
		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)									
System	Efficiency			≤ 2% (Resistive Load) ≥ 85%									
System	Response Time			≈ 63.7% ≤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							,					
	Frequence	CV.	Resolution: 0.1A; Accuracy: 0.5% F.S. + 4 Counts Resolution: 0.1Hz; Accuracy: 0.5% F.S. + 4 Counts										
Remote Inte								lard RS-232/0					
	Opertional 1	emperature						0°C~45℃					
General	Humidity						0~90%	6 (Non-conde	nsing)				
	Altitude							1500m					
Dimension	s(W*D*H	)mm	¢	5	(	3)	Ċ	D		8		(	)
V	/eight(kg)	3	1170	1400	2220	2465	3335	——	——			—	_

#### AFV Series Case Dimension Overview





600\*850\*945(mm)

600\*850\*1340(mm)

800\*860\*1545(mm)

3



1050\*970\*1800(mm)

9



1150\*1240\*1900(mm)

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P.S. : 1 Please contact us for other voltage specification.

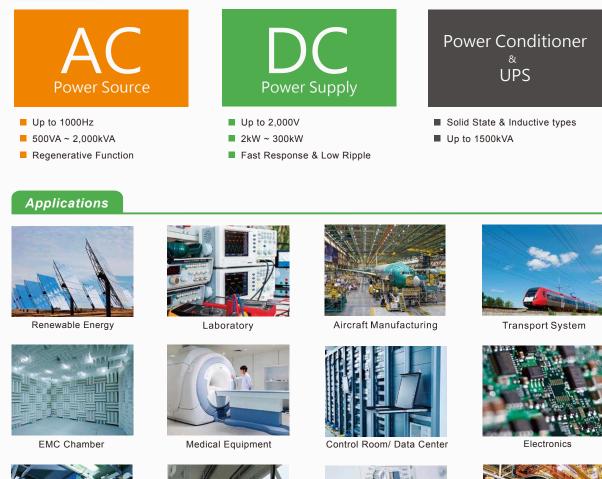
**3** For AFV seires over 400kVA, please contact us for details. \*All specifications are subject to change without notice

2 The rated input voltage is 220V/380V.

# 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**





ATE System



Communication Equipment



Airport Apron / Hangar



Military Aircraft / Helicopter



Home Appliance



Navy System



Motor / Engine



Defense Equipment

Preer

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