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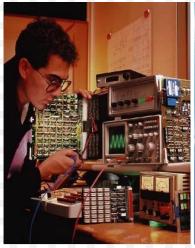
AFC Series

AC Power Source

0.5kVA~800kVA

(Over 800 kVA made by request)

Leading Test & Measurement Power Supply Provider











AC POWER CORP.

Address: 3F., No.200, Gangqian Road, Neihu District, Taipei 11494, Taiwan http://www.acpower.net E-mail:sales@acpower.net AFC Frequency Converter

Input Phase

_____1 Output Phase 1 030 Capacity 30kVA Input Voltage 220/380Vac

Please refer to Form 1 at P.5

AFC Series - Single Phase In-Single Phase Out $(0.5 \sim 30 \, kVA)$

				AFC-1KW	AFC-11003					AFC-11030				
Capacity(kVA)			0.5	1	3	5	10	15	20	30				
	Circuit Type		Transistor amplifier type IGBT/PWM type											
	Phase		Single phase											
	Wave		Sine wave											
lanat	Voltage		110V, 120V, 2	220V or 277V			120V, 220	V, or 277V 1						
Input	Voltage range		110V,120V, 220	V or 277V±15%	120V±15%, 220V±15%, or 277V±15%									
	Frequency range		50Hz±3Hz or 60Hz±3Hz											
	Power factor		0.85											
	Phase		Single phase											
	Wave						Sine	wave						
	Valtage	Low	0 ~ 150\	/ (L-N)			5V ~ 150	V (L-N)						
Outrut	Voltage	High	0 ~ 300\	/ (L-N)			10V ~ 300	OV (L-N)						
Output	Frequency				47 ~	63Hz, 50Hz, 60Hz;	2F, 4F, 400Hz (Op	tion) 2						
	Frequency regu	ılation				≤0.	01%							
	May aurrent	High (A)	2.1	4.2	12.5	20.8	41.7	62.5	83.3	125.0				
	Max.current	Low (A)	4.2	8.4	25	41.7	83.3	125.0	166.7	250.0				
	Line regulation		≪0	.5%	<1%									
	Load regulation		≤±	0.5%	<±1% (Linear load)									
	Total harmonic distortion(THD)		≪0	.5%	<2% (Linear load)									
Cuatam	Efficiency		≥7	'0%	≥90%									
System	Response time		€5	0μs	≤2ms									
	Crest factor		1.4	: 1	3:1									
	Protection device		Input no-fuse breaker, output no-fuse breaker, output no-fuse breaker, electronic circuit instant trip for over/low voltage, over current, over load, over temperature and short circuit protection and alarm system over load, over temperature and short circuit protection and alarm system						em					
	Display				LED									
	Voltage		Analytic degree: 0.1V Show range: 0~600V, analytic degree: 0.1V, accurate degree: 0.15%FS+4COUNT							Г				
Indicator	Current		0.001A	0.01A	Show range: 0 ~ 700A, analytic degree: 0.01A (<100A) / 0.1A (≥100A), accurate degree: 0.2%FS+4COUNT									
	Power		0.1W	1W	Show range: 3kW ~ 75kW, analytic degree: 0.01kW (<10kW) / 0.1kW (≥10kW), accurate degree: 0.3%FS+4COUNT									
	Frequency		Analytic degree: 0.1Hz Show range: 0~999.9Hz, analytic degree: 0.1Hz, accurate degree: 0.1%											
	Insulation resista	ance				≥DC500	V 10MΩ							
	Withstand voltag	ge insulation	AC 1800V 10mA/1 Min											
Environ-	Cooling system		Fan cooling											
mental	Temperature		0°C ~ 45°C											
	Humidity		0~90% (Non-condensing)											
	Altitude		≤1500m											
	Case No.		1		2		(3	3)	(4	D				
W	eight (Lb / Kg)		97 / 44	195 / 89	160 / 73	195 / 89	460 / 210	530 / 240	615 / 280	725 / 330				

- 2 F= Input Frequency (Hz);
- 3 Custom-made specifications are discussible;
- 4 All specifications are subject to change without prior notice.

Case No. of AFC Series (0.5~75kVA)



AFC Series - Three Phase In-Single Phase Out (10~75kVA)

Model			AFC-31010	AFC-31015	AFC-31020	AFC-31030	AFC-31045	AFC-31060	AFC-31075					
	Capacity(kVA)		10	15	20	30	45	60	75					
	Circuit Type		IGBT/PWM type											
	Phase		Three phase											
	Wave		Sine wave											
Input	Voltage		120V/208V, 220V/380V, or 277V/480V ()											
input	Voltage range		$120V/208V \pm 15\%$, $220V/380V \pm 15\%$, or $277V/480V \pm 15\%$											
	Frequency range			50Hz±3Hz or 60Hz±3Hz										
	Power factor		0.85											
	Phase					Single phase								
	Wave					Sine wave								
	Voltage	Low				5V ~ 150V (L-N)								
Output	voltage	High				10V ~ 300V (L-N)								
Output	Frequency				47 ~ 63Hz, 50	OHz, 60Hz; 2F, 4F, 40	00Hz (Option) 🙎							
	Frequency regu	ulation				≤0.01%								
	Max.current	High (A)	41.7	62.5	83.3	125.0	187.5	250.0	312.5					
	Wax.current	Low (A)	83.3	125.0	166.7	250.0	375.0	500.0	625.0					
	Line regulation		<1%											
	Load regulation		\pm 1% (Linear load)											
	Total harmonic distortion(THD)		2% (Linear load)											
System	Efficiency		≥90%											
Oystein	Response time		≤2ms											
	Crest factor		3:1											
	Protection device		Input no-fuse breaker, electronic circuit instant trip for over/low voltage, over current, over load, over temperature and short circuit protection and alarm system											
	Display		LED											
	Voltage		Show range: 0~600V, analytic degree: 0.1V, accurate degree: 0.15%FS+4COUNT											
Indicator	Current		Show range: 0 ~ 700A, analytic degree: 0.01A (<100A) / 0.1A (≥100A), accurate degree: 0.2%FS+4COUNT											
	Power		Show range: 3kW ~75kW, analytic degree: 0.01kW (<10kW) / 0.1kW (≥10kW), accurate degree: 0.3%FS+4COUNT											
	Frequency		Show range: 0~999.9Hz, analytic degree: 0.1Hz, accurate degree: 0.1%											
	Insulation resist	ance				≥DC500V 10MΩ								
	Withstand volta	ge insulation	AC 1800V 10mA/1 Min											
Environ-	Cooling system		Fan Cooling											
mental	Temperature					0℃~45℃								
	Humidity				0 ~	90% (Non-condensing	g)							
	Altitude		≤1500m											
Case No.				3	(4)	5							
W	eight (Lb / Kg)		460 / 210	530 / 240	640 / 290	750 / 340	1190 / 540	1340 / 610	1470 / 670					

- F= Input Frequency (Hz);
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AFC Series - Three Phase In-Three Phase Out $(6\sim75kVA)$

	Model			AFC-33010	AFC-33015	AFC-33020	AFC-33030	AFC-33045	AFC-33060	AFC-33075			
	Capacity(kVA)		6	10	15	20	30	45	60	75			
	Circuit Type		IGBT/PWM type										
	Phase					Three	phase						
	Wave					Sine	wave						
Input	Voltage		120V/208V, 220V/380V, or 277V/480V 🕧										
mpat	Voltage range		120V/208V±15%, 220V/380V±15%, or 277V/480V±15%										
	Frequency rang	ge	50Hz±3Hz or 60Hz±3Hz										
	Power factor		0.9										
	Phase					Three	phase						
	Wave					Sine	wave						
	Voltage	Low				5V ~ 150	V (L-N)						
Output	voltago	High				10V ~ 300	OV (L-N)						
Cutput	Frequency				47 ~ 63	3Hz, 50Hz, 60Hz;	2F, 4F, 400Hz	(Option) 2					
	Frequency regu	ulation				≤0	.01%						
	Max.current	High (A)	8.3	13.9	20.8	27.8	41.7	62.5	83.3	104.2			
		Low (A)	16.7	27.8	41.7	55.6	83.3	125.0	166.7	208.3			
	Line regulation		<1%										
	Load regulation		±1% (Linear load)										
	Total harmonic distortion(THD)												
System	Efficiency		≥90%										
-,	Response time		≤2ms										
	Crest factor		3:1										
	Protection device		Input no-fuse breaker, electronic circuit instant trip for over/low voltage, over current, over load, over temperature and short circuit protection and alarm system										
	Display		LED										
	Voltage		Show range: 0~600V, analytic degree: 0.1V, accurate degree: 0.15%FS+4COUNT										
Indicator	Current		Show range: 0 ~ 700A, analytic degree: 0.01A ($\!<\!$ 100A) $/$ 0.1A ($\!>\!$ 100A) , accurate degree: 0.2%FS+4COUNT										
	Power		Show range: 3kW ~ 75kW, analytic degree: 0.01kW (<10kW) / 0.1kW (≥10kW), accurate degree: 0.3%FS+4COUNT										
	Frequency		Show range: 0~999.9Hz, analytic degree: 0.1Hz, accurate degree: 0.1%										
	Insulation resist	ance	≥DC500V 10MΩ										
	Withstand volta	ge insulation	AC 1800V 10mA/1 Min										
Environ-	Cooling system	1	Fan Cooling										
mental	Temperature	Temperature		0℃~45℃									
	Humidity		0~90% (Non-condensing)										
	Altitude		≤1500m										
Case No.			3 4 5										
Weight (Lb / Kg)			440 / 200	500 / 230	660 / 300	680 / 310	860 / 390	1210 / 550	1270 / 580	1470 / 670			

- F= Input Frequency (Hz);
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Case No. of AFC Series (100~800kVA)

[Unit: inch / mm (Width × Depth × Height)



AFC Series - Three Phase In-Single Phase Out/Three Phase In-Three Phase Out (100~800kVA)

Model			AFC-31100	AFC-31120			AFC-33120	AFC-33150	AFC-33200			AFC-33400	AFC-33450	AFC-33500		AFC-33800
	Capacity(kVA)		100	120	150	100	120	150	200	250	300	400	450	500	600	800
	Circuit Type		IGBT/PWM type													
	Phase		Three phase													
	Wave		Sine wave													
Input	Voltage		120V/208V, 220V/380V, or 277V/480V 1													
mput	Voltage range		120V/208V±15%, 220V/380V±15%, or 277V/480V±15%													
	Frequency range			50Hz±3Hz or 60Hz±3Hz												
	Power factor			0.80												
	Phase		;	Single phase Three phase												
	Wave								Sine	wave						
	Voltage	Low							5V ~ 150\	/ (L-N)						
Output	voltage	High		10V ~ 300V (L-N)												
Output	Frequency			47 ~ 63Hz, 50Hz, 60Hz; 2F, 4F, 400Hz (Option) 2												
	Frequency regu	ulation							≤0.	01%						
	Max.current	High (A)	416.7	500.0	625.0	138.9	166.7	208.3	277.8	347.2	416.7	555.6	625.0	694.4	833.3	1111.1
	Wax.current	Low (A)	833.3	1000.0	1250.0	277.8	333.3	416.7	555.6	694.4	833.3	1111.1	1250.0	1388.9	1666.7	2222.2
	Line regulation		<2%													
	Load regulation		±1% (Linear load)													
	Total harmonic distortion(THD)		3% (Linear load)													
System	Efficiency		≥85%													
Oystoni	Response time		≤2ms													
	Crest factor		3:1													
	Protection device	ce		Input no-fuse breaker, electronic circuit instant trip for over/low voltage, over current, over load, over temperature and short circuit protection and alarm system												
	Display		LED													
Indicator	Voltage		Show range: 0 ~ 600V, analytic degree: 0.1V, accurate degree: 0.2%FS+1COUNT													
mulcator	Current			Show range: 0 ~ 9999A, analytic degree: 0.01A (<100A) / 0.1A (≥100A), accurate degree: 0.2%FS+1COUNT												
	Frequency				Show rar	ige: 40 ~ 60	0Hz, analyt	ic degree: 0.	01Hz(<100)Hz) / 0.1Hz	:(≥100Hz)	, accurate d	egree: ±0.0	02 / 0.2Hz		
	Insulation resist	ance							≥ DC500	V 10MΩ						
	Withstand voltage	ge insulation	AC 1800V 10mA/1 Min													
Environ-	Cooling system	1							Fan c	ooling						
mental	Temperature								0℃~	45℃						
	Humidity	Humidity						0 -	90% (Non-	-condensing	j)					
	Altitude								≤15	i00m						
Case No.			6				6		7			8		(9		
Weight (Lb / Kg)			1980/900	2540/1154	2970/1350	1880/856	2270/1031	3010/1365	3330/1514	5000/2273	6040/2741	6700/3039	8798/3990	9080/4118	9795/4442	10760/4880

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Form 1: AFC Input Voltage Range

100 V	
110 V	1Ø 2W+G
115 V	1Ø2W+G
120 V	
200 V	
208 V	1Ø2W+G
220 V	or 3Ø3W+G
230 V	(△-connection)
240 V	,
380 V	
400 V	0.000
415 V	3Ø3W+G (∆-connection)
440 V	(D Somicetion)
480 V	
	110 V 115 V 120 V 200 V 208 V 220 V 230 V 240 V 380 V 400 V 415 V

0	110/190 V	
Р	115/200 V	
Q	120/208 V	3Ø4W+G
R	127/220 V	or
Т	220/380 V	3Ø3W+N+G
U	230/400 V	(Y-connection)
V	240/415 V	
w	254/440 V	
Х	100/200 V	
Υ	110/220 V	1Ø3W+G
Z	115/230 V	

^{*} Other Input Voltages not listed in this form are all ${\bf S}$ (Special Specification) type.

AFC Series General Features

- One key for shutdown when fault.
- Quick response speed:

Response time ≤ 2 ms.

High accurate measurement for parameter:

Voltage — 0.15%FS+4COUNT;

Current — 0.2%FS+4COUNT;

Frequency — 0.1%;

Power — 0.3%FS+4COUNT.

Output voltage: 5~300V Continuous adjustable. Quick & convenient 3 scales of preset voltage for high and low voltage simulation:

High: +10%~+25% of preset voltage;

Medium: preset voltage;

Low: -10%~-30% of preset voltage.

Pure output sine-wave.

(Please see specification table)

Well protection and fault alarm function: Input no-fuse breaker; electronic circuit instant trip for over voltage,

over current, over load, over temperature, short circuit protection; alarm system.

Power module design patent.



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Application



Microwave oven



Motor



Product R & D



Air conditioner



Transformer



Ship



Switching Power Supply



EMC Testing



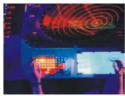
Airport Grounding Facilities



Compressor for Air Conditioner



Life Testing



Navigation

Home Electrical Appliances Manufacturers

- Air Conditioner
- Washing Machine
- Blender
- Microwave Oven
- Radio Recorder
- Refrigerator
- DVD
- Vacuum Cleaner
- Electric Shaver

General Lab

- AC Power Source Testing
- Life & Safety Test
- EMC Test
- OQC (FQC) Test
- Product Test
- Product Research & Development

Electric & Electronic Manufactures

- Switching Power Supply Testing
- Transformer
- Ballast (in Bulb, Fluorescent Lamp)
- AC Fan
- Uninterruptible Power Supply
- Charger, Relay
- Compressor
- Passive Components
- Motor

Others

- Airport Grounding Facilities
- Airport Terminal, Control Tower, Apron
- Avionics Equipment
- Air Force System Diagnostics
- Military System Diagnostics
- Navy System Diagnostics
- Marine System
- Satellite Navigator
- 400Hz Equipment & Instruments

IT Field

- OA Equipment
- Computer
- Monitor
- Fax Machine
- Copy Machine
- Shredder
- Printer
 Scanner
- Peripherals

AC Power Corp. offers products widely applied in multi-professional fields and provides the best power solutions to customers. Our mission is to satisfy customers' demand by considering the whole conditions including power environment, loading allocation, module solution alternative, thoughtful design, lean and efficient manufacturing, timely and comprehensive maintenance.

Leading Test & Measurement Power Supplies Provider



























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