Preen®

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 Series - Single Phase In-Single Phase Out (0.5~30kVA)

Model			AFC-500W	AFC-1KW	AFC-11002	AFC-11003	AFC-11005	AFC-11008	AFC-11010	AFC-11015	AFC-11020	AFC-11030			
	Capacity(kVA)			1	2	3	5	8	10	15	20	30			
Circuit Type			Transistor amplifier type IGBT/PWM type												
	Phase	Phase		Single phase											
	Wave		Sine wave												
locut	Voltage		110V, 120V, 3	220V or 277V		120V, 220V, or 277V ()									
Input	Voltage range Frequency range		110V,120V, 220 [°]	0V,120V, 220V or 277V±15% 120V±15%, 220V±15%, or 277V±15%											
			50Hz \pm 3Hz or 60Hz \pm 3Hz												
	Power factor			0.85											
	Phase		Single phase												
	Wave			Sine wave											
	Voltage	Low	0~150)V (L-N)			5V ~ 150	IV (L-N)							
Output	Volidge	High	0 ~ 300	0~300V (L-N) 10V~300V (L-N)											
Output	Frequency					47 ~ 63H	z, 50 H z, 60Hz;	2F, 4F, 400Hz	: (Option) 2						
	Frequency regu	ulation					≤0.	01%							
	Max.current	High (A)	2.1	4.2	8.3	12.5	20.8	33.3	41.7	62.5	83.3	125.0			
		Low (A)	4.2	8.4	16.7	25	41.7	66.7	83.3	125.0	166.7	250.0			
	Line regulation		\$	0.5%	<1%										
	Load regulation			±0.5%	$<\pm$ 1% (Linear load)										
	Total harmonic dis			0.5%	<2% (Linear load)										
System	Efficiency			≥70%	≥90%										
	Response time			50 µ s	≤2ms										
	Crest factor			.4 : 1	3:1										
	Protection devic	e	Input 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												
	Display			LED											
	Voltage		Analytic de	Analytic degree: 0.1V Show range: 0~600V, analytic degree: 0.1V, accurate degree: 0.15%FS+											
Indicator	Current		0.001A	0.01A	Show range: 0 ~ 700A, analytic degree: 0.01A (<100A) / 0.1A (≥100A), accurate degree: 0.2%FS+4COUNT							COUNT			
	Power		0.1W	1W	Show range: 3kW ~ 75kW, analytic degree: 0.01kW (<10kW) / 0.1kW (>10kW), accurate degree: 0.3%FS+4COUNT										
	Frequency		Analytic de	gree: 0.1Hz		Sho	w range: 0~999.	9Hz, analytic de	egree: 0.1Hz, ac	curate degree: (0.1%				
	Insulation resist	ance					≥DC500	V 10MΩ							
	Withstand voltage insulation		AC 1800V 10mA/1 Min												
Environ-	Cooling system	Cooling system					Fan o	cooling							
mental	Temperature						- 3°0	- 45℃							
	Humidity	Humidity		0~90% (Non-condensing)											
	Altitude		(1)			≤1500m				· · · · · · · · · · · · · · · · · · ·					
	Case No.					2			3			4			
W	eight (Lb / Kg)		97 / 44	195 / 89	150 / 68	160 / 73	195 / 89	440 / 200	460 / 210	530 / 240	615 / 280	725 / 330			

Remarks: 1 As to the required voltage, please refer to form 1 at page 5;
2 F= Input Frequency (Hz); Please consult our sales for detail.
3 Custom-made specifications are discussible;
4 All specifications are subject to change without prior notice.

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

[Unit: inch / mm (Width \times Depth \times Height)



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 🚺												
mput	Voltage range Frequency range			120V/208V \pm 15%, 220V/380V \pm 15%, or 277V/480V \pm 15%											
			50 Hz \pm 3Hz or 60 Hz \pm 3Hz												
	Power factor		0.85												
	Phase					Single phase									
	Wave					Sine wave									
	Voltage	Low				5V~150V (L-N)									
Output	vonage	High		10V~300V (L-N)											
Output	Frequency			47 ~ 63Hz, 50Hz, 60Hz; 2F, 4F, 400Hz (Option) 2											
	Frequency reg	ulation				≪0.01%									
	Max.current	High (A)	41.7	62.5	83.3	125.0	187.5	250.0	312.5						
	Max.ourrent	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% (Linearload)												
System	Efficiency		≥90%												
oystem	Response time		≤2ms												
	Crest factor		3:1												
	Protection devic	ж	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) $/ 0.1A$ (\geq 100A), accurate degree: 0.2%FS+4COUNT												
	Power		Show range: 3kW ~ 75kW, analytic degree: 0.01kW (${<}10kW$) / 0.1kW (${\geq}10kW$), accurate degree: 0.3%FS+4COUNT												
	Frequency		Show range: 0~999.9Hz, analytic degree: 0.1Hz, accurate degree: 0.1%												
	Insulation resist	tance	≥DC500V 10MΩ												
	Withstand volta	ge insulation	AC 1800V 10mA/1 Min												
Environ-	Cooling system	1	Fan Cooling												
mental	Temperature		0°C ~ 45°C												
	Humidity			0~90% (Non-condensing)											
	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						

Remarks: 1 As to the required voltage, please refer to form 1 at page 5;

F= Input Frequency (Hz);Please consult our sales for detail.

3 Custom-made specifications are discussible;

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AFC Series - Three Phase In-Three Phase Out (6~75kVA)

Model			AFC-33006		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 ()											
mpar	Voltage range		120V/208V \pm 15%, 220V/380V \pm 15%, or 277V/480V \pm 15%											
	Frequency rang	je		50Hz±3Hz or 60Hz±3Hz										
	Power factor			0.9										
	Phase					Three	phase							
	Wave					Sine	wave							
	Voltage	Low				5V ~ 150	V (L-N)							
Output	vonage	High				10V ~ 300	V (L-N)							
Output	Frequency				47 ~ 63	Hz, 50Hz, 60Hz;	2F, 4F, 400Hz	(Option) 2						
	Frequency regu	lation				≪0	.01%							
	Max.current	High (A)	8.3	13.9	20.8	27.8	41.7	62.5	83.3	104.2				
	Max.current	Low (A)	16.7	27.8	41.7	55.6	83.3	125.0	166.7	208.3				
	Line regulation		<1%											
	Load regulation			\pm 1% (Linear load)										
	Total harmonic distortion(THD)		2% (Linear load)											
System	Efficiency		≥90%											
System	Response time		≤2ms											
	Crest factor		3:1											
	Protection devic	æ	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 (\geq 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 voltage	ge insulation	AC 1800V 10mA/1 Min											
Environ-	Cooling system		Fan Cooling											
mental	Temperature					· 3°0	- 45℃							
	Humidity		0~90% (Non-condensing)											
	Altitude			≤1500m										
	Case No.		3 4 5											
W	/eight (Lb / Kg)		440 / 200	500 / 230	660 / 300	680 / 310	860 / 390	1210 / 550	1270 / 580	1470 / 670				

Remarks: 1 As to the required voltage, please refer to form 1 at page 5;
2 F= Input Frequency (Hz);Please consult our sales for detail.
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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)

<table-container> Circle Vec Vec Vec Vec Vec Vec Vec Vec Vec Ve</table-container>		Model		AFC-31100	AFC-31120	AFC-31150	AFC-33100	AFC-33120	AFC-33150	AFC-33200	AFC-33250	AFC-33300	AFC-33400	AFC-33450	AFC-33500	AFC-33600	AFC-33800
Phase <		Capacity(kVA)		100	120	150	100	120	150	200	250	300	400	450	500	600	800
<table-container> <th cols="" in="" series="" series<="" td="" the=""><td></td><td colspan="2">Circuit Type</td><td></td><td colspan="11">IGBT/PWM type</td></th></table-container>	<td></td> <td colspan="2">Circuit Type</td> <td></td> <td colspan="11">IGBT/PWM type</td>		Circuit Type			IGBT/PWM type											
<table-container> metric metri metric metric metric metric metric metric metric m</table-container>		Phase			Three phase												
<table-container> Imple Procency IIII Procency IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</table-container>		Wave		Sine wave													
<table-container> Image: Second Second</table-container>	loput	Voltage		120V/208V, 220V/380V, or 277V/480V 🚺													
<table-container> Power facor O 80 C U</table-container>	mput	Voltage range															
<table-container><pre> Phase variable var</pre></table-container>		Frequency rang	je				50Hz±3Hz or 60Hz±3Hz										
<table-container> Wave Low Low Lin Low Low Lin Low Low Lin Low Low Lin Low Low Low Lin Low Low Lo</table-container>		Power factor			0.80					0.8	85						
<table-container> Image or constraint frequence of the second sec</table-container>		Phase			Single phase	e				Three	phase						
<table-container> Valige Valig</table-container>		Wave			Sine wave												
<table-container> Image: Probability of the product of the</table-container>		Voltage	Low							5V ~ 150\	/ (L-N)						
<table-container> ferquency</table-container>	Output	Voltage	High							10V ~ 300	V (L-N)						
<table-container> hgin hgin no. no.</table-container>	Output	Frequency						47	~ 63Hz, 50H	Hz, 60Hz;	2F, 4F, 400H	Hz (Option)	2				
<table-container> Max. urrent Max. urrent Max. urrent Nove Nove<td></td><td>Frequency regu</td><td>ulation</td><td></td><td></td><td></td><td></td><td></td><td></td><td>≤0.</td><td>01%</td><td></td><td></td><td></td><td></td><td></td><td></td></table-container>		Frequency regu	ulation							≤0.	01%						
<table-container> Image Image</table-container>		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
Indiana Image: Ima		maxibarront	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
Name System Efficiency <		Line regulation		<2%													
SystemEfficiency $= 585\%$ Response time $\leq T = 585\%$ Crest factor $\leq T = 585\%$ Protection device $S:1$ Display $= 550\%$ over current, over load, over temperature and short circuit protection and alarm systemPolage $= 550\%$ over current, over load, over temperature and short circuit protection and alarm systemInditation device $Sisplay$ Voltage $= 550\%$ over current, over load, over temperature and short circuit protection and alarm systemVoltage $= 550\%$ over current, over load, over temperature and short circuit protection and alarm systemVoltage $= 550\%$ over current, over load, over temperature and short circuit protection and alarm systemVoltage $= 550\%$ over current, over load, over temperature and short circuit protection and alarm systemVoltage $= 550\%$ over current, over load, over temperature and short circuit protection and alarm systemVoltage $= 550\%$ over current, over load, over temperature and short circuit protection and alarm systemVoltage $= 550\%$ over current, over load, over temperature and short circuit protection and alarm systemVoltage $= 550\%$ over current, over load, over temperature and short circuit protection and alarm systemVoltage $= 550\%$ over current, over load, over temperature and short circuit protection and alarm systemVoltage $= 550\%$ over current, over load, over temperature and short circuit protection and alarm systemVoltage $= 550\%$ over current, over load, over temperature and short circuit protection and alarm systemVoltage $= 550\%$ over current, over load, over temperature and shor		Load regulation		±1% (Linear load)													
System Response time Sequence tim Sequence time Sequence time <td></td> <td colspan="2">Total harmonic distortion(THD)</td> <td colspan="12"></td>		Total harmonic distortion(THD)															
Response time Respon Response time Response time </td <td>Svstem</td> <td>Efficiency</td> <td></td> <td colspan="11"></td>	Svstem	Efficiency															
And the service Imput no-fusce Imp		Response time															
Protection device Over current, over load, over temperature and short circuit protection and alarm system Indicator Display Image: Contract over load, over temperature and short circuit protection and alarm system Voltage Image: Contract over load, over temperature and short circuit protection and alarm system Voltage Image: Contract over load, over temperature and short circuit protection and alarm system Voltage Image: Contract over load, over temperature and short circuit protection and alarm system Voltage Image: Contract over load, over temperature and short circuit protection and alarm system Voltage Image: Contract over load, over temperature and short circuit protection and alarm system Image: Contract over load, over temperature and short circuit protection and alarm system Image: Contract over load, over temperature and short circuit protection and alarm system Image: Contract over load, over temperature and short circuit protection and alarm system Image: Contract over load, over temperature and short circuit protection and alarm system Image: Contract over load, over temperature and short circuit protection and alarm system Image: Contract over load, over temperature and short circuit protection and alarm system Image: Contract over load, over temperature and short circuit protection and alarm system Image: Contract over load, over temperature and short circuit protection and alarm system Image: Contract over load, over tempe		Crest factor		3:1													
Indicator Voltage Show range: 0 ~ 9999A, analytic degree: 0.1V, accurate degree: 0.2%FS+1COUNT Voltage Current Show range: 0 ~ 9999A, analytic degree: 0.01A (<100A) / 0.1A (≥100A), accurate degree: 0.2%FS+1COUNT		Protection devic	æ				over cu					-	-	system			
Indicator Current Show range: 0 ~ 9999A, analytic degree: 0.01A (<100A) / 0.1A (≥100A), accurate degree: 0.2%FS+1COUNT Frequency Current Show range: 0 ~ 9999A, analytic degree: 0.01A (<100A) / 0.1A (≥100A), accurate degree: 0.2%FS+1COUNT		Display								LE	Ð						
Eurone Current Show range: 0 ~ 9999A, analytic degree: 0.01A(<100A) / 0.1A(≥100A), accurate degree: 0.2%FS+1COUNT Frequency Show range: 0 ~ 9099A, analytic degree: 0.01A(<100A) / 0.1A(≥100A), accurate degree: 0.2%FS+1COUNT	Indicator	Voltage		Show range: 0 ~ 600V, analytic degree: 0.1V, accurate degree: 0.2%FS+1COUNT													
Insulation resistance > DC500V 10MQ Withstand voltage insulation	mulcator	Current		Show range: 0 ~ 9999A, analytic degree: 0.01A (<100A) / 0.1A (≥100A), accurate degree: 0.2%FS+1COUNT													
$ \begin{array}{ c c c c } \hline \mbox{Withstand voltage insulation} \\ \hline \mbox{Withstand voltage insulation} \\ \hline \mbox{Vithstand voltage insulation} \\ \hline Vithstand voltage insu$		Frequency	Frequency Show range: 40 ~ 600Hz, analytic degree: 0.01Hz (<100Hz) / 0.1Hz (>100Hz), accurate degree: ±0.02 / 0.2Hz														
Environ metal Cooling system Image: Cooling system Image: Francoling Temperature Image: Francoling OC ~ 45°C Humidity Image: Cooling system		Insulation resist	ance	≥ DC500V 10MΩ													
Immedia Temperature 0°C ~ 45°C Humidity 0°C ~ 45°C Attitude Case No. 6 7 6 7 8 9		Withstand voltag	ge insulation							AC 1800V ?	10mA/1 Min						
Interpretation Sector Secto	Environ-	Cooling system	Cooling system		Fan cooling												
Altitude <th< th=""> <th< th=""> <</th<></th<>	mental	Temperature			0℃~45℃												
Case No. 6 7 6 7 8 9		Humidity						0 -	~ 90% (Non	-condensing	j)						
										≤15	00m						
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		Case No.				-											
	W	eight (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

Remarks: 1 As to the required voltage, please refer to form 1 at page 5;

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Form 1: AFC Input Voltage Range

А	100 V	
в	110 V	1Ø2W+G
С	115 V	TØ 2W+G
D	120 V	
Е	200 V	
F	208 V	1Ø2W+G
G	220 V	or 3Ø3W+G
н	230 V	(∆-connection)
1	240 V	
J	380 V	
к	400 V	2 (22) 11 (2
L	415 V	3Ø3W+G (∆-connection)
м	440 V	(2 connection)
N	480 V	

О	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	
Y	110/220 V	1Ø3W+G
z	115/230 V	

* Other Input Voltages not listed in this form are all S (Special Specification) type.

AFC Series General Features

- One key for shutdown when fault.
- Quick response speed: Response time ≤ 2ms.
- 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.



Leading Test & Measurement Power Supply Provider





Microwave oven



Motor



Product R & D

Air Conditioner

Blender

Washing Machine

Microwave Oven

Radio Recorder

Vacuum Cleaner

Electric Shaver

Life & Safety Test

OQC (FQC) Test

EMC Test

Product Test

AC Power Source Testing

Product Research & Development

Refrigerator

DVD



Air conditioner



Transformer



Ship



Switching Power Supply



EMC Testing



Airport Grounding Facilities

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

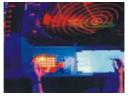
- Airport Grounding Facilities
- Airport Terminal, Control Tower, Apron
- Avionics Equipment
- Air Force System Diagnostics
- Military System Diagnostics
- Navy System Diagnostics
- Marine System
- Satellite Navigator
- 400Hz Equipment & Instruments



Compressor for Air Conditioner



Life Testing



Navigation

- OAEquipment
- Computer
 - Monitor
- Fax Machine
- Copy Machine
 - Shredder
- Printer
- Scanner
- Peripherals

6

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





AC POWER CORP.

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Version:

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