

PWF Series

Programmable Wide Frequency AC Power Sources

30/45/60/75kVA 45~500Hz or 300~800Hz

Leading Test & Measurement Power Supply Provider















AC POWER CORP.

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PWF Series Product Features

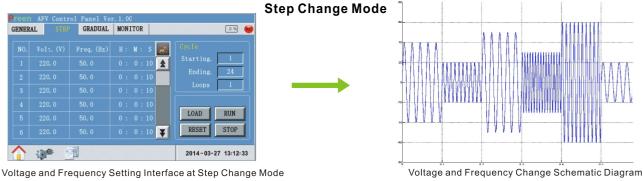
1. Touch Screen HMI

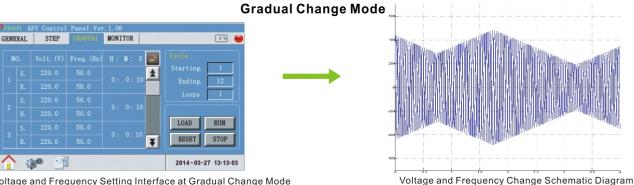
User friendly HMI, easy to operate, rich colors, able to simulate change curve, suitable for non-harsh environment such as laboratory and R&D center

2. High Efficiency

Power Efficiency 90%, energy saving and eco-friendly

- 3. Programmable output voltage and frequency functionality: generic mode, step change mode, gradual change mode and disturbance simulation mode
- ① Generic mode: one set of output voltage and output frequency
- ② Step Change Mode: up to 24 sets of output voltage and frequency are available for configuration. Each voltage, frequency and running time can be set separately.
- ③ Gradual Change Mode: up to 12 sets of output voltage and frequency are available for configuration. Each set includes starting voltage, starting frequency and ending voltage, ending frequency and running time.
- ④ Disturbance simulation Mode: up to 24 sets of output voltage and frequency are available for configuration. Each set includes starting voltage, starting frequency, rising time, and holding time.





Voltage and Frequency Setting Interface at Gradual Change Mode

Disturbance Simulation Mode



PWF Series Product Features

4. Multiple supported communication interface

- (1) RS232, GPIB, LAN or USB are available: SCPI command
- 2 RS485 is available: MODBUS RTU command

5. Enhanced troubleshooting function

- 1 Fault code is shown in the screen in the event of fault; to enable quicktrouble shooting and reduce downtime and therefore enhance uptime
- ② Fault code and message in the PWF unit can be replicated into USB memory stick for further survey

6. Back-feed protection

When back-feeding occurs, over voltage is detected and then output is switched off immediately to protect load equipment and maintain safety

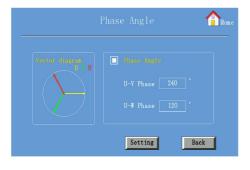
7. Adjustable current and power limit

Within maximum current and power, output current and power are adjustable. It is both flexible and safe.

8. Independently adjustable three-phase output / Phase angle adjustment

- 1) Three-phase output voltage (and frequency) is independently adjustable
- 2 Work as one unit of three-phase power source or as three units of Single-phase power source
- 3 Adjustable phase angle between three phases.





9. Suitable for 60Hz or 400Hz or 360 to 800Hz wide frequency test

Airbus ABD0100.1.8, Boeing 787-B3-0147, MIL-STD-704 standards

10. Eco-friendly and high-efficiency design

- Power module technology: used to make size smaller and power density higher
- SMD technology: used to enhance the reliability of the PWF unit
- High-efficiency IGBT: low EMI and high inverter efficiency
- Lightning protection module: prevent a lightning storm from damaging the input/output circuitry and the PWF unit and load equipment
- Variable-speed fans: low noise, low maintenance and high energy efficiency



3 Input Phase

 O60 Capacity 60kVA

Please contact us for other voltage specification

PWF series Three Phase-Three Phase(30~75kVA)

Model		PWF-L-33030	PWF-L-33045	PWF-L-33060	PWF-L-33075			
C	Capacity(kVA)	30	45	60	75			
C	Circuit Type	IGBT/PWM Type						
	Phase	Three Phase						
	Voltage	120V/208V, 220V/380V, or 277V/480V 1						
Input	Voltage range	±15%						
	Frequency	47~63Hz						
	Power Factor	0.94						
Output	Phase	Three Phase						
	Waveform	Pure Sine Waveform						
	Voltage	0V ~ 300.0V (L-N)						
	Frequency range	45~500Hz						
	Frequency Stability	<0.01%						
	Max.Current(A)	41.6	62.5	83.3	104.1			
	Overload Capacity		125%-30min, 150%-	-10min, 200%-1min				
	Line regulation	<1% (linear load)						
	Load regulation	<1% (linear load)						
Perfor-	Output THD	<2% (linear load)						
mance	Efficiency	85~90%						
	Response time	<2ms						
	Crest Factor	3:1						
	Protection	Input no-fuse breaker, Output Over/Low Voltage, Over Current, Over Load, Over Temperature, Short Circuit, Input Over/Low Voltage, Input Phase Lack						
	Туре	7" Touch Panel Screen						
	Voltage	Accuracy: 0.2V+0.1%FS; Resolution: 0.1V						
	Current	Accuracy: 0.2A+0.1%FS; Resolution: 0.1A						
Display	Frequency	Accuracy: 0.01Hz±0.01%FS @≤100Hz; Resolution: 0.1Hz; 0.1Hz±0.01%FS @≥100Hz; Resolution: 0.1Hz						
	Real Power (kW)	Accuracy: 0.2kW+0.1%FS; Resolution: 0.1kW						
	Reactive Power (kVA)	Accuracy: 0.2kVA+0.1%FS; Resolution: 0.1kVA						
	Input Power Factor	Accuracy: +/-0.01; Resolution: 0.01						
	Disturbance Test	Yes (Res: 0.1V, 0.1Hz, 30ms)						
Function	Start Up Phase Angel Adjustment	Yes (Res: 1 degree)						
Function	Step Mode Test	Yes (24 groups, Res: 0.1V, 0.1Hz, 1sec)						
	Gradual Mode Test	Yes (12 groups, Res: 0.1V, 0.1Hz, 1sec)						
Communi-	RS232 or Rs485	Standard (RS232: SCPI, RS485:MODBUS RTU)						
cation	GPIB, LAN, or USB	Option (SCPI command)						
	Isolation Resistance	>DC500V 10MΩ						
	Isolation Voltage	AC 2000V 10mA/ 1min						
Environment	Cooling Method	Fan						
Zommont	Working Temperature	0°C to 45°C						
	Humidity	0~95%(Non-Condense)						
	Altitude	<1500m						
D	C Offset (mv)	<20mV						
Dimensi	ion (W $ imes$ D $ imes$ H) (mm)	685×840×1715		835×1040×1715				

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PWF series Three Phase-Three Phase(30~75kVA)

	Model	PWF-M-33030	PWF-M-33045	PWF-M-33060	PWF-M-33075		
Capacity(kVA)		30	45	60	75		
(Circuit Type	IGBT/PWM Type					
	Phase	Three Phase					
Input	Voltage	120V/208V, 220V/380V, or 277V/480V 1					
	Voltage range	$\pm 15\%$					
	Frequency	47~63Hz					
	Power Factor	0.94					
	Phase	Three Phase					
	Waveform	Pure Sine Waveform					
	Voltage	0V ~ 150.0V (L-N)					
Output	Frequency range	300~800Hz					
	Frequency Stability	<0.01%					
	Max.Current(A)	66.7	100	133.3	166.7		
	Overload Capacity	125%-30min, 150%-10min, 200%-1min					
	Line regulation	<1% (linear load)					
	Load regulation	<1% (linear load)					
Perfor-	Output THD	<2% (linear load)					
mance	Efficiency	85~90%					
	Response time	<2ms					
	Crest Factor	3:1					
	Protection	Over Temperature, Short Circuit, Input O	ver/Low Voltage, Input Phase Lack				
	Туре	7" Touch Panel Screen					
	Voltage	Accuracy: 0.2V+0.1%FS ≤500Hz; Resolution: 0.1V; 0.4V+0.1%FS > 500Hz; Resolution: 0.1V					
	Current	Accuracy: 0.2A+0.1%FS; Resolution: 0.1A					
Display	Frequency	Accuracy: 0.1Hz+0.01%FS; Resolution: 0.1Hz					
	Real Power (kW)	Accuracy: 0.2kW+0.1%FS; Resolution: 0.1kW					
	Reactive Power (kVA)	Accuracy: 0.2kVA+0.1%FS; Resolution: 0.1kVA					
	Input Power Factor	Accuracy: +/-0.01; Resolution: 0.01					
	Disturbance Test	Yes (Res: 0.1V, 0.1Hz, 30ms)					
Function	Start Up Phase Angel Adjustment	Yes (Res: 1 degree)					
	Step Mode Test	Yes (24 groups, Res: 0.1V, 0.1Hz, 1sec)					
	Gradual Mode Test	(🔾					
Communi- cation	RS232 or Rs485 GPIB, LAN, or USB	Standard (RS232: SCPI, RS485:MODBUS RTU)					
cation							
	Isolation Resistance Isolation Voltage	>DC500V 10MΩ					
	Cooling Method	AC 2000V 10mA/ 1min Fan					
Environment	Working Temperature						
	Humidity	0~95%(Non-Condense)					
	Altitude						
D	C Offset (mv)	<1500m <20mV					
	ion (W×D×H) (mm)	685×840×1715 835×1040×1715					
DC A Discount of the first throught on the same if and the							

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.

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