

GF303P

EMC Test Power Source

GF303P is designed as the power source for EMC (electromagnetic compatibility) test. Adopts advanced technology to be anti-interference. Good stability, high degree of automation, easy to carry.

Application:

Electrical measurement in Power system, thermal, remote, scheduling and so on;

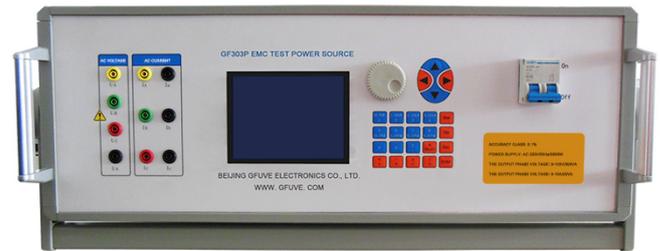
Inspection for high precision standard source power institute and company;

Supply standard input for EMC test for Metrology Institute, Electric Power Academy of Sciences;

Standard source in EMC lab;

EMC test to inspect meter accuracy;

Also can work with other instrument in EMC lab like surge generator, group of pulse generator, frequency drop generator, electrostatic generator etc.



Features

1. The use of special technology and process, the power supply output anti-interference ability, suitable for various electromagnetic compatible immunity test
2. Voltage, current and phase, power factor, frequency, etc will set up and take load regulation
3. It can be set up 2~50 harmonics amplitude and phase, and it can be added to the fundamental wave in every harmonic output
4. Frequency points phase adjustable (U1U2 and U3 phase)
5. Voltage and current output range wide, big power, high stability, waveform distortion small
6. Strong loading ability, and it can take capacity, sensibility, impedance load or composite type load, and the load regulation RG is higher than 0.01%
7. The 32 bit MPU + DSP + FPGA, powerful agile
8. Hardware PID, fast response, load change will not cause output fluctuations
9. Power frequency weekly wave is as high as 50000 points of waveform kneading, signal output without filtering, waveform output precision, harmonic output precision, harmonic distortion small
10. Range automatic switching; Software calibration, simple operation, stable and reliable
11. The large screen 320 x 240 liquid crystal display (LCD), English interface, simple operation
12. Perfect over-current, over-voltage, overheating, short circuit, open circuit, overload protection, automatic fault detection
13. With RS232 interface, it can connect with PC
14. With PC software, it can control standard source output via programmed

Parameters

Electrical parameters	
Power supply	AC 220V±10%, frequency 50/60 Hz
AC voltage output	
Range (U1, U2, U3 phase)	0-120 V; range switch automatically
Adjust fineness	0.01% RG
Accuracy	0.1% RG
Stability	0.03% RG/200s
Distortion degree	<0.1% (not capacitive load)
Output power	300VA
Full load regulation rate	0.01% RG
Full load regulation time	Less than 1mS
Long-term stability	±60 PPM/year
AC current output	
Range (I1, I2, I3 phase)	0-10A; range switch automatically
Adjust fineness	0.01% RG
Accuracy	0.1% RG
Stability	0.03% RG/200s
Distortion degree	<0.1% (not capacitive load)
Output power	25VA
Full load regulation rate	0.01% RG
Full load regulation time	Less than 1mS
Long-term stability	± 60 PPM/year
Power output	
Accuracy	0.1% RG
Stability	0.03% RG/120s
Phase angle	
Adjusting range	0°-359.99°
Resolution	0.001°
Accuracy	0.1°
Frequency	
Adjusting range	40-65 Hz
Resolution	0.002 Hz
Accuracy	0.005 Hz
Temperature drift	±0.5 PPM/°C
Long-term stability	± 4 PPM/year

Electrical parameters - continued
Power factor

Adjusting range	-1 ~ 0 ~ +1
Resolution	0.0001
Accuracy	0.0005

Harmonic accuracy

Harmonic times	2-50 st
Harmonic phase	0-359.99°
Harmonic phase accuracy	<0.01°
Harmonic set accuracy	0.1% (relative to the base wave ratings)

With capacitive load capacity

0-120 V	1uF
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Mechanical parameters

Dimensions (W×D×H) (mm)	500x600x180
Weight (kg)	About 50

Environmental conditions

Working temperature	0°C to 40°C
Storage condition	-30°C to -60°C
Relative humidity	≤ 85%