

ENERGY METER CALIBRATION GF303D

GF303D

Portable Three Phase Standard Source-120A

GF303D Portable Three Phase Standard Source is suitable for power department, measuring department, quality control department, research units, institutions of higher learning, electric energy meter, power distribution terminals, power supply management, load control, power quality, reactive power compensation device and the production of enterprise etc.



Features

1. To set up and take the load regulation of voltage, current, phase angle, frequency and power factor etc, can be used as a large current source, voltage source and power source.
2. Setting 2-31 times of the amplitude and phase harmonics, and it can be added to the base wave in every harmonic output.
3. Voltage, current output a wide range, big power, high stability, waveform distortion degree is small.
4. Strong with load ability, but it can take capacitive, sensibility, resistance of composite type load or load and load regulation is higher than 0.01%.
5. Apply the 32 bit MPU + DSP + CPLD, powerful flexible.
6. Using hardware PID, fast response, the change of load will not cause output volatility.
7. Industrial frequency waves as high as 5000 points a week of the wave kneading, signal output without filter, precise output waveform, the harmonic output precision, harmonic distortion degree is small.
8. Range switching automatically.
9. Using software calibration, simple operation, stable and reliable.
10. Vector diagram display, adjustable to IEC387 OR DIN410.
11. Big touch screen, 7-inch TFT color LCD display, English interface, operating simply.
12. Perfect over-current, over-voltage, heat, a shorts-and-opens, overload protection, failure detection automatically.
13. With RS232 interface, and PC connection.
14. Take place of the machine software and can output via the PC software program.

Parameters

Electrical parameters

Accuracy class	0.05%, 0.1%
Power supply	Single phase AC 85-265 V, frequency 50/60 Hz
AC Voltage output	
Range (U1, U2, U3 phase)	57.7V/100V/220V/380V; range switch automatically(Max

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Electrical parameters-continued

Adjust fineness	0.01% RG
Accuracy	0.05% RG
Stability	<0.01% RG/120s
Distortion degree	<0.3% (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
AC Current output	
Range (I1, I2, I3 phase)	0.2A, 1A, 5A, 20A, 100A; range switch automatically
Adjustment range	(0-120)%RG
Adjust fineness	0.01% RG
Accuracy	0.05% RG
Stability	<0.01% RG/120s
Distortion degree	<0.3% (not capacitive load)
Output power	45VA
Full load regulation rate	0.01% RG
Full load regulation time	Less than 1mS
Long-term stability	± 60 PPM/year
Power output	
Accuracy	0.05% RG
Stability	0.01% RG/120s
Phase angle	
Adjusting range	0°-359.99°
Resolution	0.001°
Accuracy	0.05°
Power factor	
Adjusting range	-1 ~ 0 ~ +1
Resolution	0.0001
Accuracy	0.0005
Frequency	
Adjusting range	40-70 Hz
Resolution	0.001 Hz
Accuracy	0.005 Hz
Temperature drift	± 0.5 PPM/°C
Long-term stability	± 4 PPM/year

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Electrical parameters-continued

Harmonic accuracy

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

Mechanical parameters

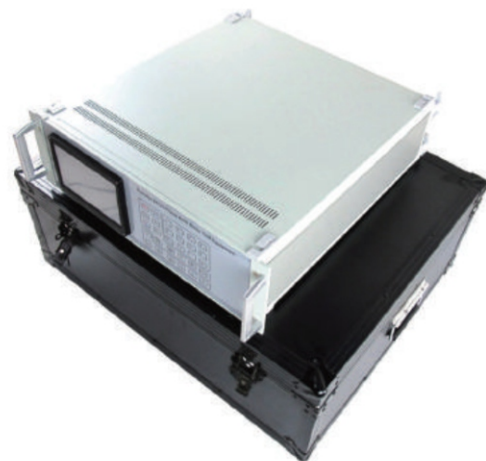
Dimensions (W×D×H) (mm)	500x600x175
Weight (kg)	27

Environmental conditions

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

Selection guide

NO.	Accuracy	Voltage range	Current Range	Weight
303D12001	0.1%	0-500V	0-120A	27KG
303D12005	0.05%	0-500V	0-120A	27KG
303D2401	0.1%	0-500V	0-24A	20KG
303D2405	0.05%	0-500V	0-24A	20KG
303D1201	0.1%	0-380V	0-12A	18KG
303D1205	0.05%	0-380V	0-12A	18KG



PT FUSI LIBERTI INFOSINDO

Jl. Raya Pasar Minggu 10 D
Jakarta 12510 - Indonesia
Tel.: +62 21 797 1734 (Hunting)
Fax.: +62 21 794 1468
www.fulindo.co.id