GFUVE

GF303

Program-controlled Three-phase Standard Power Source

GF303 Program-controlled Three-phase Standard Power 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, also can be used as AC current source, AC voltage source or power source
- 2. To set 2-128 times of the amplitude and phase harmonics, and it can be added to the base wave in every harmonic output
- 3. Frequency value is adjustable (AB and phase C)
- 4. Voltage, current output a wide range, big power, high stability, waveform distortion degree is small
- 5. 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%
- 6. To apply the 32 bit MPU + DSP + FPGA, powerful flexible
- 7. To use hardware PID, fast response, the change of load will not cause output volatility
- 8. Industrial frequency waves as high as 50000 points a week of the wave kneading, signal output without filter, precise output waveform, the harmonic output precision, harmonic distortion degree is small
- 9. Range switching automatically
- 10. To use software calibration, simple operation, stable and reliable
- 11. To have big screen, 320 x 240 LCD display, Chinese or English interface, operating simply
- 12. To have perfect over-current, over-voltage, heat, a shorts-and-opens, overload protection, failure detection automatically.
- 13. With RS232 interface, and PC connection
- 14. To take place machine software, it can be output through the PC software program

Parameters

Electrical parameters	
Accuracy class	0.05%, 0.1%
Powersupply	Single phase AC 85V-265V, 50/60 Hz
AC Voltage output	
Range (U1, U2,U3 phase)	57.7V / 100V / 220V / 380V, switch automatically (max 420V)
Adjustment resolution	0.01%, 0.1%, 1%, 10%,

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Electrical parameters - continued				
AC Voltage output - continued				
Accuracy	0.05% RG			
Stability	0.005% RG/1min			
Distortion degree	better than 0.1% (not capacitive load)			
Load Capacity	25VA			
Full load regulation rate	Less than 0.01% RG			
Full load regulation time	Less than 1mS			
Temperature drift	8 PPM / °C			
Long-term stability	60 PPM/year			
AC Current output				
Range (I1, I2, I3 phase)	0.1/0.25A/0.5A/1A/5A/10A/20A, switch automatically			
Adjustment resolution	0.01%, 0.1%, 1%, 10%,			
Accuracy	0.05% RG			
Stability	0.005% RG/1min			
Distortion degree	better than 0.1% (not capacitive load)			
Load capacity	25VA			
Full load regulation rate	Less than 0.01% RG			
Full load regulation time	Less than 1mS			
Temperature drift	8 PPM/°C			
Long-term stability	60 PPM/year			
Power output				
Active power accuracy	0.05%			
Reactive power accuracy	0.1%			
Stability	0.005% RG/1min			
Phase				
Range	0°-359.99°			
Adjustment resolution	0.01°, 0.1°, 1°, 10°			
Accuracy	0.03°			
Power factor				
Adjusting range	-1 to 0 to +1			
Resolution	0.0001			
Accuracy	0.0005			
Frequency				
Range	40-65Hz or 40-400Hz (option)			
Adjustment resolution	0.001Hz, 0.01Hz, 0.1Hz, 1Hz			
Accuracy	0.002Hz			
Temperature drift	0.5PPM/°C			
Long-term stability	4 PPM/year			



Electrical parameters - continued					
Harmonic					
Harmonic times	2-128				
Adjustment resolution	0.1% (compared with fundamental wave)				
Harmonic content (compared with fundamental wave)					
Voltage	≤ 40%				
Current	≤ 40%				
Phase	0°-360°				
Capacitive load capacity					
0 - 280 V	1uF				
280-420 V	0.6uF				
Mechanical parameters					
Dimensions (W×D×H) (mm)	450x380x160				
Weight (kg)	18				
Environmental conditions					
Workingtemperature	0°C to 40°C				
Storage conditions	-30°C to 60°C				
Relative humidity	≤85%				

Selection guide

No.	Accuracy	Voltage range	Current range	Weight	Remark
3030601	0.10%	0-264V	0-6A	12KG	
3030605	0.05%	0-264V	0-6A	12KG	
3031201	0.10%	0-420V	0-12A	13.5KG	
3031205	0.05%	0-420V	0-12A	13.5KG	
3032001	0.10%	0-420V	0-20A	18KG	
3032005	0.05%	0-420V	0-20A	18KG	
303H0601	0.10%	0-300V	0-6A	15KG	XP system
303H0605	0.05%	0-300V	0-6A	15KG	XP system
303H1201	0.10%	0-420V	0-12A	18KG	XP system
303H1205	0.05%	0-420V	0-12A	18KG	XP system
303H2001	0.10%	0-420V	0-20A	20KG	XP system
303H2005	0.05%	0-420V	0-20A	20KG	XP system