

# GF335

## Three Phase Power Analyzer

*GF335 Three Phase Power Analyzer is suitable for Power Company, technical supervision departments, Industrial, mining, petroleum as well as chemicals, home appliances and manufacturing enterprises.*

### Functions

1. Measuring energy consumption values - the precise timing measurements of electrical equipment for short-term energy consumption; energy resolution: milli-watts; time resolution: milli-second; they are difficult to available for common instrument of power. The functions are used by pumping, cranes, air conditioning and other equipment in a work cycle connected power consumption.
2. The value of the measurement process- it can be recorded and tested continuously voltage, current, active power, reactive power and other electrical parameter values and curves in a dynamic process and graphically display.
3. To measure the instantaneous values - including the exchange parameters: U, I, P, Q, PF, phase angle, frequency, harmonics, etc.
4. Measurement of harmonics - measurement / display voltage and current waveforms and harmonic bar graph.
5. Check Meter - real live load calibration of various single-phase, three-phase energy meters.
6. Vector analysis - based on the voltage, current, phase error of judgment wiring, display vector graphics.



### Features

1. Ultra-compact design, handheld, small size, light weight
2. The usage of multi-channel power supply, AC power supply can also be rechargeable battery-powered machine
3. High accuracy instrument, good stability, and wide range of voltage monitoring 0-1200V, current 0-500A
4. It can be divided into direct current clamp measurements and precision measurements
5. It can measure three-phase voltage, current, active power, reactive power, power factor, frequency, phase, etc
6. Showing the AC waveform, vector diagram and determining the three-phase three-wire connection errors
7. It can measure harmonic content from 2 to 64 and the harmonic analysis
8. The measured data can record, query and upload print
9. Instrument calibration by using software to facilitate the correction instrument variation

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## Parameters

Items	Range	Effective resolution	Accuracy1	Accuracy2	Remarks
Voltage	0-1200V	0.001V	0.1%	0.05%	2 ranges
Current	0-500A	0.001A	0.1%	0.05%	3 ranges
Clamp-on	0.01-100A	0.01A	0.15%	0.15%	Option <sup>(2)</sup>
Frequency	45-65Hz	0.001Hz	0.01Hz	0.002Hz	5 bit display
Active power	0 to $\pm U_{max} \times I_{max}$	0.01W	0.5%	0.2%	5 bit display
Reactive power	0 to $\pm U_{max} \times I_{max}$	0.01Var	1%	0.5%	5 bit display
Apparent power	0 to $\pm U_{max} \times I_{max}$	0.01VA	1%	0.5%	5 bit display
Active energy			0.5%	0.2%	
Reactive energy			1%	0.5%	
Harmonic	2nd-64th		0.5%	0.2%	
Power factor	0 to $\pm 0.9999$	0.0001	$\pm 0.001$	$\pm 0.0005$	5 bit display
Phase	0-359.999°	0.005°	$\pm 0.05^\circ$	$\pm 0.02^\circ$	6 bit display

(1) Directly test

(2) Clamp-on 500A,3000A,5000A is optional.

### Electrical parameters

Power supply	One-phase power supply (85-265VAC/45-70Hz) Lithium battery, 5000mAh
Communication port	RS232
Energy constant	3600imp/kWh, 360000imp/kWhx4
Frequency Influence	$\leq 20$ ppm/Hz
Pulse Interface	TTL energyx6

### Mechanical parameters

Main machine (LxWxH) (mm)	240x157x60
Weight (kg)	1.5
Carrier dimension (LxWxH) (mm)	470x380x220
Carrier weight (kg)	10.6 (Including three clamp-on (100A), wires and software)

### Environmental conditions

Environment	-10 to +55°C, 15-85%RHD
Altitude (m)	-10 to 3500
Temperature	-20°C to 65°C
Temperature	$\leq 25$ ppm/°C (U/I), $\leq 50$ ppm/°C (others)

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