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
### Parameters

<table>
<thead>
<tr>
<th>Items</th>
<th>Range</th>
<th>Effective resolution</th>
<th>Accuracy1</th>
<th>Accuracy2</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>0-1200V</td>
<td>0.001V</td>
<td>0.1%</td>
<td>0.05%</td>
<td>2 ranges</td>
</tr>
<tr>
<td>Current</td>
<td>0-500A</td>
<td>0.001A</td>
<td>0.1%</td>
<td>0.05%</td>
<td>3 ranges</td>
</tr>
<tr>
<td>Clamp-on</td>
<td>0.01-100A</td>
<td>0.01A</td>
<td>0.15%</td>
<td>0.15%</td>
<td>Option(^{(2)})</td>
</tr>
<tr>
<td>Frequency</td>
<td>45-65Hz</td>
<td>0.001Hz</td>
<td>0.01Hz</td>
<td>0.002Hz</td>
<td>5 bit display</td>
</tr>
<tr>
<td>Active power</td>
<td>0 to ±Umax x Imax</td>
<td>0.01W</td>
<td>0.5%</td>
<td>0.2%</td>
<td>5 bit display</td>
</tr>
<tr>
<td>Reactive power</td>
<td>0 to ±Umax x Imax</td>
<td>0.01Var</td>
<td>1%</td>
<td>0.5%</td>
<td>5 bit display</td>
</tr>
<tr>
<td>Apparent power</td>
<td>0 to ±Umax x Imax</td>
<td>0.01VA</td>
<td>1%</td>
<td>0.5%</td>
<td>5 bit display</td>
</tr>
<tr>
<td>Active energy</td>
<td></td>
<td></td>
<td>0.5%</td>
<td>0.2%</td>
<td></td>
</tr>
<tr>
<td>Reactive energy</td>
<td></td>
<td></td>
<td>1%</td>
<td>0.5%</td>
<td></td>
</tr>
<tr>
<td>Harmonic</td>
<td>2nd-64th</td>
<td>0.5%</td>
<td>0.2%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power factor</td>
<td>0 to ±0.9999</td>
<td>0.0001</td>
<td>±0.001</td>
<td>±0.0005</td>
<td>5 bit display</td>
</tr>
<tr>
<td>Phase</td>
<td>0-359.999°</td>
<td>0.005°</td>
<td>±0.05°</td>
<td>±0.02°</td>
<td>6 bit display</td>
</tr>
</tbody>
</table>

(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**: ≤20ppm/Hz
- **Pulse Interface**: TTL energyx6

### Mechanical parameters

- **Main machine (LxWxH) (mm)**: 240×157×60
- **Weight (kg)**: 1.5
- **Carrier dimension (LxWxH) (mm)**: 470×380×220
- **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**: ≤25ppm/°C (U/l), ≤50ppm/°C (others)