

## GF112H

### CLAMP HARMONIC POWER METER

GF112H harmonic power meter is a high precision handheld clamp harmonic power meter in accuracy class 0.1, used for testing all electrical parameter and harmonics on site. Wide measurement range from up to 600A and 0 to 600V, and also can be used to test voltage, current, active power, reactive power, apparent power, harmonics, phase angle, power factor, frequency, energy etc. 2-63rd harmonics measurement, clamp type industrial design, with 3.5 inch touch TFT color LCD, bluetooth and USB. It can measure voltage and current harmonic content and bar chart, waveform, convenient to verify the power quality on site.

### Applications

1. Factory;
2. Power plant;
3. Power engineering company;
4. Distribution power corporation;
5. Oil, gas, petrochemical company;
6. Electricity power bureau & power company;
7. Power quality check department (power quality audit);
8. Electrical department of industrial and mining enterprises;



### Features

1. Accuracy class 0.1;
2. Display of vector diagram;
3. 3.5 inch color touch TFT LCD;
4. 2-63rd Harmonics measurement;
5. Easy and user friendly operation;
6. Lithium batteries can be replaced;
7. Storage 20000 groups calibrate data;
8. With APP software, export test report;
9. With bluetooth & USB communication port;
10. Automatic compensation for current clamp;
11. Wide measuring range 0 -600V /0.001-600A;
12. Unique long-term and temperature stability;
13. The Li-battery can work 48 hours continuously;
14. One screen displays all the measured parameters;
15. Measure U, I, P, Q, S, E, harmonics, PF, frequency etc;
16. Oscilloscope function display current & current wave;
17. The meter and current clamp have Integration design;

## Parameters

| Electrical parameters             |                                                                                             |
|-----------------------------------|---------------------------------------------------------------------------------------------|
| Accuracy class                    | 0.1%                                                                                        |
| Active power measurement accuracy | 0.1%                                                                                        |
| Harmonics measurement accuracy    | 0.1%                                                                                        |
| Power supply                      | AAA type, 3PCS, Li rechargeable battery, 2700mAh, 3.6V<br>it can work 48 hours continuously |
| Warming-up time                   | <2 min                                                                                      |
| Voltage measurement               |                                                                                             |
| U Range                           | 0-600V                                                                                      |
| Accuracy                          | 0.05%                                                                                       |
| Harmonics                         | 2nd-63rd                                                                                    |
| Current measurement               |                                                                                             |
| I Range                           | 1mA-120A or 60mA-600A                                                                       |
| Accuracy                          | 0.05%                                                                                       |
| Harmonics                         | 2nd-63rd                                                                                    |
| Phase measurement                 |                                                                                             |
| Range                             | 0.00°-359.99°                                                                               |
| Resolution                        | 0.01°                                                                                       |
| Accuracy                          | 0.05°                                                                                       |
| Power measurement                 |                                                                                             |
| Accuracy                          | 0.05%                                                                                       |
| Frequency measurement             |                                                                                             |
| Range                             | 40-70Hz                                                                                     |
| Resolution                        | 0.001Hz                                                                                     |
| Accuracy                          | 0.002Hz                                                                                     |
| Power Factor Measurement          |                                                                                             |
| Range                             | -1 ~ 0 ~ 1                                                                                  |
| Resolution                        | 0.0001                                                                                      |
| Accuracy                          | 0.0002                                                                                      |
| Harmonics                         |                                                                                             |
| Harmonics Content                 | Yes, 0-100%                                                                                 |
| Harmonics Bar graph               | Yes                                                                                         |
| Function                          |                                                                                             |
| Register test                     | Yes                                                                                         |
| PC management software            | Yes                                                                                         |
| Android APP                       | Optional                                                                                    |
| LCD                               | 3.5 inch touch TFT color LCD                                                                |
| RMS                               | Yes                                                                                         |
| Waveform measurement              | Yes                                                                                         |
| Data storage                      | 20000 sets                                                                                  |
| Communication port                | USB & Bluetooth port                                                                        |

**Electrical parameters - continued**
**Standard**

|          |                                                                                                                                                                                |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard | IEC61010-1, IEC61010-2-32, IEC61010-2-31, IEC60529, pollution grade 2, 600V CAT IV, EN/IEC 61326; IEC 61000-4-30; IEC 61000-4-7, IEEE 519; IEC 61000-4-15; IEEE 1459; EN 50160 |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Safety**

|                           |                         |
|---------------------------|-------------------------|
| Isolation protection      | IEC 61010-1:2001        |
| Measurement Category      | 600V CAT IV             |
| Degree of protection      | IP50                    |
| Declaration of conformity | CE & UL, CNAS certified |

**Mechanical parameters**

|                         |                                                      |
|-------------------------|------------------------------------------------------|
| Dimensions (W×D×H) (mm) | 225×61×38<br>Aperture of current clamp: 30mm or 50mm |
| Weight (kg)             | 0.65 (mains)<br>1.5 (accessory and box)              |

**Environmental conditions**

|                     |               |
|---------------------|---------------|
| Working temperature | -10°C to 55°C |
| Working humidity    | 5%-85%RHD     |
| Storage temperature | -25°C to 70°C |
| Storage humidity    | 5%-95%RHD     |