GF1115B

Portable Ac Ev Charger Testing Equipment With 9kw Load

GF1115B AC EV charger testing equipment can achieve metrological verification, operation and maintenance error verification, start stop and other tests of AC charging piles. It can simultaneously measure the output voltage, current, power, electrical energy, harmonics, phase, frequency, waveform distortion rate and clock error of charging piles. At the same time, it also has functions such as insulation resistance testing, temperature acquisition, humidity acquisition, GPS time calibration, etc. The entire process can be automated and manually tested. Large screen English menu display, with a large amount of information displayed and easy operation. Technically, GF1115 uses various cutting-edge technologies to achieve high performance, such as 24bit high-speed and high-precision synchronous sampling AD and 500M dual core DSP CPU.

Applications

1. Electrical laboratory;
2. EV & Charging pile factory;
3. Metrological service center;
4. Laboratories of power utilities;
5. Third party testing organization;
6. National Metrology and testing department;
7. Electricity power bureau & power company;
8. Charging pile operation and maintenance organization;

Features

1. With 9KW AC load;
2. Meet CCS2 Europe port;
3. As a waveform recorder;
4. Wide range 0-480V/0-63A;
5. With PC software optional;
6. Waveform display function;
7. High stability, high reliability;
8. Energy accumulating function;
9. High accuracy class up to 0.05%;
10. Measuring 2nd~127th harmonics;
11. Automatic generation of test report;
12. Metal structure, strong and reliable;
13. Automatic and manual test optional;
14. Using 24bit AD sampling technology;
15. With Li-battery, working more than 8 hours;
16. Portable, small size, drag bar box structure design;
17. Suit for testing EV & Charging AC pile error on site;
18. Built in WIFI, it can be controlled by PDA, PC computer;
19. According to JJG 1148-2022 & GB/T 34657.1-2017 Standard;
20. Safety test, performance test, Compatibility test, Metrological test;
21. Integrated design concept, built-in reference meter, insulation resistance tester, oscilloscope, interface simulator, power analyzer etc;

Test Item

1. CP interrupt test;
2. CC interrupt test;
3. CP grounding test;
4. Charging readiness test;
5. JJG 1148-2022 Standard;
6. Testing of working error;
7. Output overcurrent test;
8. Display error verification;
9. Insulation resistance test;
10. CP loop voltage limit test;
11. Normal charging end test;
12. Disconnect switch S2 test;
13. GB/T 34657.1-2017 Standard;
14. Connection confirmation test;
15. Testing of clock indication error;
16. Start up and charging phase test;
17. Testing of payment amount error;
18. Temperature and humidity detection;
19. Charging connection control sequence test;
20. Continuity loss test of protective grounding conductor;

Parameters

Electrical parameters	
Accuracy class	0.05%
Power supply	One Phase AC 100-265V, frequency 50/60Hz; Li-battery
Power consumption	<75VA
Voltage measurement	
Range	380V (0-480.000V)
Error	±0.02% (30V-480V)
Harmonic	2^{nd}-127^{nd}
Current measurement	
Range	63A (0-80.000A)
Error	±0.02% (1A-80A)
Harmonic	2^{nd}-127^{nd}
Power measurement error	
Active power	±0.05% (1A-80A,30-480V)
Energy measurement error	
Active energy	±0.05% (50%-120%Un)/(1%-110%In)
Phase angle	
Range	0°-360.000°
Resolution	0.01°
Error	±0.05°
Power factor	
Range	-1.00000-0-1.00000
Resolution	0.00005
Error	0.00001

Electrical parameters - continued	
Frequency	
Range	45.0000-65.0000Hz
Resolution	0.001
Error	±0.005
Pulse output	
Output channel	1
Energy constant	1-9999999
Pulse ratio	1:1
Output level	5V
Output rated frequency	0-100KHz
Pulse input	
Input channel	1
Input level	3-12V
Input frequency	0-100KHz
Insulation Resistance Measurement	
Voltage Range	0−1000V
Resistance range	0−50MΩ
Accuracy	±5% (1～50MΩ)
Power Analyzer(AC)	
AC voltage input(L1\L2\L3\N)	220V±20% (±0.05%RD)
AC current input(IL1\IL2\IL3)	0.1-500A(±0.5%RG) (current sensor optional)
Accuracy	±0.5%
Voltage harmonic times	2-127 times
Current harmonic times	2-127 times
Wave Recorder Measurement	
Voltage input Range	0-±1000V
Accuracy	±1%RG
Waveform Capture Resolution	10us
CAN Baud Rate	250kbit/s
Temperature Measurement	
Range	-40°C to +80°C
Accuracy	±0.3°C
Resolution	0.1°C
Humidity Measurement	
Range	0%RH-99.99%RH
Accuracy	±5%RH
Resolution	0.1%RH

Electrical parameters - continued	
Load	
Range	0-9KW
Min step	0.01kW/ 200V
Gear numbers	8192
Function	
LCD Display	10 inch 800x600 touch TFT
Energy accumulation	Yes
Self-calibration	Yes
Data storage	Yes
Auto test	Yes
Manu test	Yes
GPS	Yes
Test Report (word file) download	Yes
PC software	Optional
Communication port	RS232, USB, WIFI, 10/100M LAN
Standard	
Standard	IEC 62053-21,22, 23; IEC 60736; ANSI C12.20-2002; IEC 62196-2; IEC 62196-3;JJG 597-2005; JJG596-2012; JJG 1085-2013; JJG 1148-2022; GB/T 34657.1-2017; JJF 68-2019; DL/T 826-2002; DL/T 1478-2015; DL/T 448-2016;
Safety	
Isolation protection	IEC 61010-1:2001
Measurement Category	300 V CAT III, 600 V CAT II
Degree of protection	IP65
Declaration of conformity	CE & CNAS certified
Mechanical parameters	
Dimensions (W×H×D) (mm)	365×212×532
Weight (kg)	12
Environmental conditions	
Ambient temperature	-20°C to +50°C
Storage temperature	-30°C to +65°C
Relative humidity	10%-85%
Temperature coefficient	≤0.005% /℃
Influence of external fields	≤0.05 %/mT