



校准证书

CALIBRATION CERTIFICATE

证书编号 DBB201708878
Certificate No.

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委托方 广州致远电子有限公司
Client

委托方地址 广州市天河区思成路43号ZLG立功科技大厦
Add. of Client

计量器具名称 POWER QUALITY ANALYZER
Description

型号规格 E6500-ZY5A
Model/Type


制造厂 广州致远电子有限公司
Manufacturer

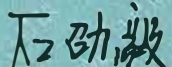
出厂编号 2010117071711110002 设备编号
Serial No. Equipment No.

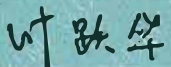
接收日期 2017年 12 月 25 日
Date of Receipt Y M D

结果 符合仪器说明书技术要求
Results Comply with the requirements in the manual

校准日期 2017年 12 月 27 日
Date of Calibration Y M D

批准人
Approved Signatory 

核 验
Checked by 

校 准
Calibrated by 

证书专用章
Stamp



扫一扫查真伪



说 明

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DIRECTIONS

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1. 本中心是国家质量监督检验检疫总局在华南地区设立的国家法定计量检定机构, 本中心的质量管理体系符合 ISO/IEC 17025:2005 标准的要求。

This laboratory is the National Legal Metrological Verification Institution in southern China set up by the General Administration of Quality Supervision. The quality system is in accordance with ISO/IEC 17025:2005.

2. 本中心所出具的数据均可溯源至国家计量基准和国际单位制(SI)。

All data issued by this laboratory are traceable to national primary standards and International System of Units (SI).

3. 本次校准的技术依据:

Reference documents for the calibration:

JJF1491-2014 数字式交流电参数测量仪校准规范 C.S. for Digital AC Electrical Parameters Meter

JJF1205-2008 谐波和闪烁分析仪校准规范 C.S. for Harmonious and Flicker Analysis System

4. 本次校准所使用的主要计量标准器具:

Major standards of measurement used in the calibration:

设备名称 Name of Equipment	编号 Serial No.	证书号/有效期 Certificate No. /Due Date	计量特性 Metrological Characteristic
多功能校准源 Multifunction Calibrator	8080014	DBB201703489 /2018-04-05	ACV: $\pm 0.015\%$ rdg; ACA: $\pm 0.04\%$ rdg; FREQ: $\pm 2.5 \times 10^{-6}$ rdg
谐波功率标准	355771114/34067082 4/340670848	DLdr2017-0491 /2018-05-01	ACA Harmonic: $\pm 0.045\%$; ACV Harmonic: $\pm 0.045\%$; ACV: $\pm 0.006\%$; ACA: $\pm 0.006\%$; AC Power: $\pm 0.01\%$; Phase: $\pm 0.003^\circ$

5. 校准地点、环境条件:

Place and environmental conditions of the calibration:

地点 本中心电磁实验室(Electrics-magnetics Lab) 温度 $(21 \pm 2)^\circ\text{C}$ 相对湿度 $(55 \pm 5)\%$
Place Temperature R.H.

6. 被校准仪器限制使用条件:

Limiting condition of the instrument calibrated:

注: 1. 本证书校准结果只与受校准仪器有关。

2. 未经本机构书面批准, 不得部分复制此证书。

Note: 1. The results relate only to the items calibrated.

2. This certificate shall not be reproduced except in full, without the written approval of our laboratory.



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一、外观: 符合要求
Apparent inspection: Pass

二、交流电压: 见表 1, $f=50$ Hz
ACV: Shown in table 1

表 1
Table 1

回路 Channel	量 程 Range	示 值 Indication Value	实际值 Reference Value	误 差 Error	允许误差 MPE	结 论 Conclusion
		(V)	(V)	(V)	(V)	(Pass/Fail)
1	100V	19.996	20.000	- 0.004	±0.100	Pass
		39.993	40.000	- 0.007	±0.100	Pass
		59.992	60.000	- 0.008	±0.100	Pass
		79.983	80.000	- 0.017	±0.100	Pass
		99.980	100.000	- 0.020	±0.100	Pass
2	100V	19.994	20.000	- 0.006	±0.100	Pass
		39.990	40.000	- 0.010	±0.100	Pass
		59.985	60.000	- 0.015	±0.100	Pass
		79.981	80.000	- 0.019	±0.100	Pass
		99.984	100.000	- 0.016	±0.100	Pass
3	100V	20.000	20.000	0.000	±0.100	Pass
		39.993	40.000	- 0.007	±0.100	Pass
		59.989	60.000	- 0.011	±0.100	Pass
		79.989	80.000	- 0.011	±0.100	Pass
		99.988	100.000	- 0.012	±0.100	Pass



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三、交流电流: 见表 2, $f=50\text{ Hz}$
ACI: Shown in table 2

表 2
Table 2

回路 Channel	量 程 Range	示 值 Indication Value (A)	实际值 Reference Value (A)	误 差 Error (A)	允许误差 MPE (A)	结 论 Conclusion (Pass/Fail)
1	5A	1.001	1.0000	+ 0.001	±0.002	Pass
		2.003	2.0000	+ 0.003	±0.004	Pass
		3.005	3.0000	+ 0.005	±0.006	Pass
		4.007	4.0000	+ 0.007	±0.008	Pass
		5.008	5.0000	+ 0.008	±0.010	Pass
2	5A	1.001	1.0000	+ 0.001	±0.002	Pass
		2.001	2.0000	+ 0.001	±0.004	Pass
		3.002	3.0000	+ 0.002	±0.006	Pass
		4.003	4.0000	+ 0.003	±0.008	Pass
		5.003	5.0000	+ 0.003	±0.010	Pass
3	5A	1.001	1.0000	+ 0.001	±0.002	Pass
		2.002	2.0000	+ 0.002	±0.004	Pass
		3.003	3.0000	+ 0.003	±0.006	Pass
		4.003	4.0000	+ 0.003	±0.008	Pass
		5.004	5.0000	+ 0.004	±0.010	Pass

四、频率: 见表 3
FREQ: Shown in table 3

表 3
Table 3

示 值 Indication Value (Hz)	实际值 Reference Value (Hz)	误 差 Error (Hz)	允许误差 MPE (Hz)	结 论 Conclusion (Pass/Fail)
48.999	49.000	- 0.001	±0.010	Pass
50.000	50.000	0.000	±0.010	Pass
50.999	51.000	- 0.001	±0.010	Pass



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五、有功功率: 见表 4, $f=50$ Hz
AC Power: Shown in table 4

表 4
Table 4

回路 Channel	量 程 Range	功率因数 cos ϕ	示 值 Indication Value (W)	实际值 Reference Value (W)	误 差 Error (W)	允许误差 MPE (W)	结 论 Conclusion (Pass/Fail)
1	600V/5A	1.0	100.320	100.000	+ 0.320	± 0.502	Pass
		1.0	200.318	200.000	+ 0.318	± 1.002	Pass
		1.0	300.446	300.000	+ 0.446	± 1.502	Pass
		1.0	400.623	400.000	+ 0.623	± 2.003	Pass
		1.0	500.735	500.000	+ 0.735	± 2.504	Pass
2	600V/5A	1.0	100.320	100.000	+ 0.320	± 0.502	Pass
		1.0	200.318	200.000	+ 0.318	± 1.002	Pass
		1.0	300.446	300.000	+ 0.446	± 1.502	Pass
		1.0	400.623	400.000	+ 0.623	± 2.003	Pass
		1.0	500.735	500.000	+ 0.735	± 2.504	Pass
3	600V/5A	1.0	100.320	100.000	+ 0.320	± 0.502	Pass
		1.0	200.318	200.000	+ 0.318	± 1.002	Pass
		1.0	300.446	300.000	+ 0.446	± 1.502	Pass
		1.0	400.623	400.000	+ 0.623	± 2.003	Pass
		1.0	500.735	500.000	+ 0.735	± 2.504	Pass
123	600V/5A	1.0	300.211	300.000	+ 0.211	± 1.501	Pass
		1.0	600.543	600.000	+ 0.543	± 3.003	Pass
		1.0	900.786	900.000	+ 0.786	± 4.504	Pass
		1.0	1201.059	1200.000	+ 1.059	± 6.005	Pass
		1.0	1501.291	1500.000	+ 1.291	± 7.506	Pass



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六、无功功率: 见表 5, $f=50$ Hz

Reactive Power: Shown in table 5

表 5
Table 5

回路 Channel	量程 Range	功率因数 $\sin\phi$	示值 Indication Value (Var)	实际值 Reference Value (Var)	误差 Error (Var)	允许误差 MPE (Var)	结论 Conclusion (Pass/Fail)
1	600V/5A	1.0	100.136	100.000	+ 0.136	±0.501	Pass
		1.0	200.330	200.000	+ 0.330	±1.002	Pass
		1.0	300.415	300.000	+ 0.415	±1.502	Pass
		1.0	400.625	400.000	+ 0.625	±2.003	Pass
		1.0	500.713	500.000	+ 0.713	±2.504	Pass
2	600V/5A	1.0	100.055	100.000	+ 0.055	±0.500	Pass
		1.0	200.125	200.000	+ 0.125	±1.001	Pass
		1.0	300.182	300.000	+ 0.182	±1.501	Pass
		1.0	400.221	400.000	+ 0.221	±2.001	Pass
		1.0	500.314	500.000	+ 0.314	±2.502	Pass
3	600V/5A	1.0	100.031	100.000	+ 0.031	±0.500	Pass
		1.0	200.133	200.000	+ 0.133	±1.001	Pass
		1.0	300.189	300.000	+ 0.189	±1.501	Pass
		1.0	400.217	400.000	+ 0.217	±2.001	Pass
		1.0	500.298	500.000	+ 0.298	±2.501	Pass
123	600V/5A	1.0	300.236	300.000	+ 0.236	±1.501	Pass
		1.0	600.577	600.000	+ 0.577	±3.003	Pass
		1.0	900.781	900.000	+ 0.781	±4.504	Pass
		1.0	1201.075	1200.000	+ 1.075	±6.005	Pass
		1.0	1501.341	1500.000	+ 1.341	±7.507	Pass



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七、电压谐波: 见表 6
ACV Harmonic: Shown in table 6

表 6
Table 6

回路 Channel	基波电压 ACV	谐波 Harmonic	示值 Indication Value (%)	实际值 Reference Value (%)	误差 Error (%)	允许误差 MPE (%)	结论 Conclusion (Pass/Fail)
1	100V,50Hz	3th	0.497	0.5000	- 0.003	±0.050	Pass
		5th	0.500	0.5000	0.000	±0.050	Pass
		7th	0.500	0.5000	0.000	±0.050	Pass
		11th	0.500	0.5000	0.000	±0.050	Pass
		13th	0.500	0.5000	0.000	±0.050	Pass
		25th	0.500	0.5000	0.000	±0.050	Pass
		37th	0.499	0.5000	- 0.001	±0.050	Pass
		50th	0.499	0.5000	- 0.001	±0.050	Pass
		100V,50Hz	3th	0.999	1.0000	- 0.001	±0.050
	5th		0.999	1.0000	- 0.001	±0.050	Pass
	7th		0.999	1.0000	- 0.001	±0.050	Pass
	11th		0.999	1.0000	- 0.001	±0.050	Pass
	13th		0.999	1.0000	- 0.001	±0.050	Pass
	25th		0.999	1.0000	- 0.001	±0.050	Pass
	37th		0.998	1.0000	- 0.002	±0.050	Pass
	50th		0.997	1.0000	- 0.003	±0.050	Pass
	100V,50Hz	3th	3.998	4.0000	- 0.002	±0.200	Pass
		5th	3.995	4.0000	- 0.005	±0.200	Pass
		7th	3.993	4.0000	- 0.007	±0.200	Pass
		11th	3.992	4.0000	- 0.008	±0.200	Pass
		13th	3.992	4.0000	- 0.008	±0.200	Pass
		25th	3.991	4.0000	- 0.009	±0.200	Pass
		37th	3.986	4.0000	- 0.014	±0.200	Pass
	50th	3.982	4.0000	- 0.018	±0.200	Pass	
100V,50Hz	3th	7.973	8.0000	- 0.027	±0.400	Pass	
	5th	7.972	8.0000	- 0.028	±0.400	Pass	
	7th	7.972	8.0000	- 0.028	±0.400	Pass	
	11th	7.970	8.0000	- 0.030	±0.400	Pass	
	13th	7.970	8.0000	- 0.030	±0.400	Pass	
	25th	7.964	8.0000	- 0.036	±0.400	Pass	
	37th	7.956	8.0000	- 0.044	±0.400	Pass	
	50th	7.945	8.0000	- 0.055	±0.400	Pass	



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续表 6

Table 6

回路 Channel	基波电压 ACV	谐波 Harmonic	示值 Indication Value (%)	实际值 Reference Value (%)	误差 Error (%)	允许误差 MPE (%)	结论 Conclusion (Pass/Fail)
2	100V,50Hz	3th	0.498	0.5000	- 0.002	±0.050	Pass
		5th	0.500	0.5000	0.000	±0.050	Pass
		7th	0.500	0.5000	0.000	±0.050	Pass
		11th	0.500	0.5000	0.000	±0.050	Pass
		13th	0.500	0.5000	0.000	±0.050	Pass
		25th	0.500	0.5000	0.000	±0.050	Pass
		37th	0.499	0.5000	- 0.001	±0.050	Pass
		50th	0.499	0.5000	- 0.001	±0.050	Pass
	100V,50Hz	3th	0.999	1.0000	- 0.001	±0.050	Pass
		5th	0.999	1.0000	- 0.001	±0.050	Pass
		7th	0.999	1.0000	- 0.001	±0.050	Pass
		11th	0.999	1.0000	- 0.001	±0.050	Pass
		13th	0.999	1.0000	- 0.001	±0.050	Pass
		25th	0.999	1.0000	- 0.001	±0.050	Pass
		37th	0.998	1.0000	- 0.002	±0.050	Pass
		50th	0.997	1.0000	- 0.003	±0.050	Pass
	100V,50Hz	3th	3.998	4.0000	- 0.002	±0.200	Pass
		5th	3.996	4.0000	- 0.004	±0.200	Pass
		7th	3.994	4.0000	- 0.006	±0.200	Pass
		11th	3.992	4.0000	- 0.008	±0.200	Pass
		13th	3.992	4.0000	- 0.008	±0.200	Pass
25th		3.991	4.0000	- 0.009	±0.200	Pass	
37th		3.986	4.0000	- 0.014	±0.200	Pass	
50th		3.983	4.0000	- 0.017	±0.200	Pass	
100V,50Hz	3th	7.973	8.0000	- 0.027	±0.400	Pass	
	5th	7.972	8.0000	- 0.028	±0.400	Pass	
	7th	7.972	8.0000	- 0.028	±0.400	Pass	
	11th	7.970	8.0000	- 0.030	±0.400	Pass	
	13th	7.970	8.0000	- 0.030	±0.400	Pass	
	25th	7.963	8.0000	- 0.037	±0.400	Pass	
	37th	7.953	8.0000	- 0.047	±0.400	Pass	
	50th	7.946	8.0000	- 0.054	±0.400	Pass	



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续表 6

Table 6

回路 Channel	基波电压 ACV	谐波 Harmonic	示值 Indication Value (%)	实际值 Reference Value (%)	误差 Error (%)	允许误差 MPE (%)	结论 Conclusion (Pass/Fail)
3	100V,50Hz	3th	0.499	0.5000	- 0.001	±0.050	Pass
		5th	0.500	0.5000	0.000	±0.050	Pass
		7th	0.500	0.5000	0.000	±0.050	Pass
		11th	0.500	0.5000	0.000	±0.050	Pass
		13th	0.500	0.5000	0.000	±0.050	Pass
		25th	0.500	0.5000	0.000	±0.050	Pass
		37th	0.500	0.5000	0.000	±0.050	Pass
		50th	0.499	0.5000	- 0.001	±0.050	Pass
	100V,50Hz	3th	0.999	1.0000	- 0.001	±0.050	Pass
		5th	0.999	1.0000	- 0.001	±0.050	Pass
		7th	0.999	1.0000	- 0.001	±0.050	Pass
		11th	0.999	1.0000	- 0.001	±0.050	Pass
		13th	0.999	1.0000	- 0.001	±0.050	Pass
		25th	0.999	1.0000	- 0.001	±0.050	Pass
37th		0.998	1.0000	- 0.002	±0.050	Pass	
50th		0.997	1.0000	- 0.003	±0.050	Pass	
100V,50Hz	3th	3.997	4.0000	- 0.003	±0.200	Pass	
	5th	3.996	4.0000	- 0.004	±0.200	Pass	
	7th	3.993	4.0000	- 0.007	±0.200	Pass	
	11th	3.992	4.0000	- 0.008	±0.200	Pass	
	13th	3.991	4.0000	- 0.009	±0.200	Pass	
	25th	3.991	4.0000	- 0.009	±0.200	Pass	
	37th	3.986	4.0000	- 0.014	±0.200	Pass	
	50th	3.982	4.0000	- 0.018	±0.200	Pass	
100V,50Hz	3th	7.974	8.0000	- 0.026	±0.400	Pass	
	5th	7.972	8.0000	- 0.028	±0.400	Pass	
	7th	7.972	8.0000	- 0.028	±0.400	Pass	
	11th	7.971	8.0000	- 0.029	±0.400	Pass	
	13th	7.970	8.0000	- 0.030	±0.400	Pass	
	25th	7.964	8.0000	- 0.036	±0.400	Pass	
	37th	7.957	8.0000	- 0.043	±0.400	Pass	
	50th	7.947	8.0000	- 0.053	±0.400	Pass	



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八、电流谐波: 见表 7

ACI Harmonic: Shown in table 7

表 7
Table 7

回路 Channel	基波电流 ACI	谐波 Harmonic	示值 Indication Value (A)	实际值 Reference Value (A)	误差 Error (A)	允许误差 MPE (A)	结论 Conclusion (Pass/Fail)
1	5A, 50Hz	3th	0.050	0.0500	0.000	±0.008	Pass
		5th	0.050	0.0500	0.000	±0.008	Pass
		7th	0.050	0.0500	0.000	±0.008	Pass
		9th	0.050	0.0500	0.000	±0.008	Pass
		11th	0.050	0.0500	0.000	±0.008	Pass
		13th	0.050	0.0500	0.000	±0.008	Pass
		25th	0.050	0.0500	0.000	±0.008	Pass
		37th	0.050	0.0500	0.000	±0.008	Pass
		50th	0.050	0.0500	0.000	±0.008	Pass
		3th	0.151	0.1500	+ 0.001	±0.008	Pass
		5th	0.151	0.1500	+ 0.001	±0.008	Pass
		7th	0.151	0.1500	+ 0.001	±0.008	Pass
		9th	0.151	0.1500	+ 0.001	±0.008	Pass
		11th	0.150	0.1500	0.000	±0.008	Pass
		13th	0.150	0.1500	0.000	±0.008	Pass
		25th	0.150	0.1500	0.000	±0.008	Pass
		37th	0.150	0.1500	0.000	±0.008	Pass
		50th	0.150	0.1500	0.000	±0.008	Pass
		3th	1.004	1.000	+ 0.004	±0.050	Pass
		5th	1.004	1.000	+ 0.004	±0.050	Pass
		7th	1.004	1.000	+ 0.004	±0.050	Pass
		9th	1.004	1.000	+ 0.004	±0.050	Pass
		11th	1.004	1.000	+ 0.004	±0.050	Pass
		13th	1.004	1.000	+ 0.004	±0.050	Pass
25th	1.004	1.000	+ 0.004	±0.050	Pass		
37th	1.003	1.000	+ 0.003	±0.050	Pass		
50th	1.002	1.000	+ 0.002	±0.050	Pass		



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续表 7

Table 7

回路 Channel	基波电流 ACI	谐波 Harmonic	示值 Indication Value (A)	实际值 Reference Value (A)	误差 Error (A)	允许误差 MPE (A)	结论 Conclusion (Pass/Fail)
2	5A,50Hz	3th	0.050	0.0500	0.000	±0.008	Pass
		5th	0.050	0.0500	0.000	±0.008	Pass
		7th	0.050	0.0500	0.000	±0.008	Pass
		9th	0.050	0.0500	0.000	±0.008	Pass
		11th	0.050	0.0500	0.000	±0.008	Pass
		13th	0.050	0.0500	0.000	±0.008	Pass
		25th	0.050	0.0500	0.000	±0.008	Pass
		37th	0.050	0.0500	0.000	±0.008	Pass
		50th	0.050	0.0500	0.000	±0.008	Pass
		3th	0.151	0.1500	+ 0.001	±0.008	Pass
		5th	0.151	0.1500	+ 0.001	±0.008	Pass
		7th	0.151	0.1500	+ 0.001	±0.008	Pass
		9th	0.151	0.1500	+ 0.001	±0.008	Pass
		11th	0.151	0.1500	+ 0.001	±0.008	Pass
		13th	0.151	0.1500	+ 0.001	±0.008	Pass
		25th	0.151	0.1500	+ 0.001	±0.008	Pass
		37th	0.150	0.1500	0.000	±0.008	Pass
		50th	0.150	0.1500	0.000	±0.008	Pass
		3th	1.003	1.000	+ 0.003	±0.050	Pass
		5th	1.003	1.000	+ 0.003	±0.050	Pass
		7th	1.004	1.000	+ 0.004	±0.050	Pass
		9th	1.004	1.000	+ 0.004	±0.050	Pass
		11th	1.004	1.000	+ 0.004	±0.050	Pass
		13th	1.004	1.000	+ 0.004	±0.050	Pass
		25th	1.004	1.000	+ 0.004	±0.050	Pass
		37th	1.003	1.000	+ 0.003	±0.050	Pass
		50th	1.001	1.000	+ 0.001	±0.050	Pass



校准结果

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续表 7
Table 7

回路 Channel	基波电流 ACI	谐波 Harmonic	示值 Indication Value (A)	实际值 Reference Value (A)	误差 Error (A)	允许误差 MPE (A)	结论 Conclusion (Pass/Fail)
3	5A,50Hz	3th	0.050	0.0500	0.000	±0.008	Pass
		5th	0.050	0.0500	0.000	±0.008	Pass
		7th	0.050	0.0500	0.000	±0.008	Pass
		9th	0.050	0.0500	0.000	±0.008	Pass
		11th	0.050	0.0500	0.000	±0.008	Pass
		13th	0.050	0.0500	0.000	±0.008	Pass
		25th	0.050	0.0500	0.000	±0.008	Pass
		37th	0.050	0.0500	0.000	±0.008	Pass
		50th	0.050	0.0500	0.000	±0.008	Pass
		3th	0.151	0.1500	+ 0.001	±0.008	Pass
		5th	0.151	0.1500	+ 0.001	±0.008	Pass
		7th	0.151	0.1500	+ 0.001	±0.008	Pass
		9th	0.151	0.1500	+ 0.001	±0.008	Pass
		11th	0.151	0.1500	+ 0.001	±0.008	Pass
		13th	0.151	0.1500	+ 0.001	±0.008	Pass
		25th	0.151	0.1500	+ 0.001	±0.008	Pass
		37th	0.150	0.1500	0.000	±0.008	Pass
		50th	0.150	0.1500	0.000	±0.008	Pass
		3th	1.003	1.000	+ 0.003	±0.050	Pass
		5th	1.003	1.000	+ 0.003	±0.050	Pass
		7th	1.004	1.000	+ 0.004	±0.050	Pass
		9th	1.004	1.000	+ 0.004	±0.050	Pass
		11th	1.004	1.000	+ 0.004	±0.050	Pass
		13th	1.004	1.000	+ 0.004	±0.050	Pass
		25th	1.004	1.000	+ 0.004	±0.050	Pass
		37th	1.003	1.000	+ 0.003	±0.050	Pass
		50th	1.001	1.000	+ 0.001	±0.050	Pass



校准结果 RESULTS OF CALIBRATION

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说明:

Note:

1. 测量结果的扩展不确定度:

Expanded uncertainty of measuring results:

交流电压 $U_{rel}=0.04\%$

ACV

频率 $U_{rel}=0.01\%$

FREQ

交流电流 $U_{rel}=0.04\%$

ACI

电压谐波 $U_{rel}=0.11\%$

ACV Harmonic

交流功率 $U_{rel}=0.04\%$

AC Power

电流谐波 $U_{rel}=0.11\%$

ACI Harmonic

包含因子 $k=2$, 依据 "JJF1059.1-2012《测量不确定度评定与表示》"

Coverage factor $k=2$, In accordance with "JJF 1059.1-2012 Evaluation and Expression of Uncertainty in Measurement"

2. 结论: 以上校准结果符合该仪器说明书技术要求。

Conclusion: The data of instrument calibration above comply with the technical requirements in the manual.

3. 按照所依据技术文件的规定, 建议复校时间间隔不超过1年。

According to the demand of reference document, next calibration is proposed within 1 year.

