



# 校准证书

## CALIBRATION CERTIFICATE

证书编号 D68201204466  
Certificate No.

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委托方 广州市铭泰电子科技有限公司  
Client

委托方地址 广州市白云区嘉禾联边彭上致富路F栋4楼  
Add. of Client

计量器具名称 CLAMP LEAKER  
Description

型号规格 7000 A  
Model/Type


制造厂 ETCR  
Manufacturer


出厂编号 DKJ1201000 设备编号 \_\_\_\_\_  
Serial No. Equipment No.


接收日期 2012 年 2 月 2 日  
Date of Receipt Y M D

结论 见校准结果页  
Conclusion Shown in the results of calibration

校准日期 2012 年 2 月 12 日  
Date of Calibration Y M D

批准人  
Approved Signatory 

核 验 曹 硕  
Inspected by 

校 准 石 劲 毅  
Calibrated by 





# 说 明

证书编号 DBB201204486  
Certificate No.

## 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, 计量授权证书号是:  
(国) 法计 (2007) 01043号、(国) 法计 (2007) 01032号。本中心是中国合格评定国家认可委员会 (CNAS) 认可实验室, 认可证书号为: CNAS L0730

This laboratory is the National Legal Metrological Verification Institution in southern China set up by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China (AQSIQ) under authorization certificates No.(2007)01043 & (2007)01032. This laboratory is accredited by China National Accreditation Service for Conformity Assessment under Laboratory Accreditation Certification No. CNAS L0730.

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:

JJF1075-2001 钳形电流表校准规范 C. S. of Clamp Ammeters

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/型号 Name of Equipment /Model	编号 Serial No.	证书号/有效期 Certificate No. /Due Date	计量特性 Metrological Characteristic
多功能标准源 Multifunction Standard Sources /5520A	8080014	DBB20115406 /2012-04-25	DCV: $\pm 0.001\%$ ; DCA: $\pm 0.0\%$ ; ACV: $\pm 0.010\%$ ; ACA: $\pm 0.04\%$ ; CEM: $\pm 0.0028\%$ ; FREQ: $\pm (2.5 \times 10^{-6})$

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 温度  $(23 \pm 2) ^\circ\text{C}$  相对湿度  $(50 \pm 5) \%$   
Place 室 (Electrics-magnetics Lab) Temperature RH

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. 未经本中心书面批准, 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.



## 校准结果 RESULTS OF CALIBRATION

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一、外观: 符合要求(Apparent inspection: Pass)

二、交流电流: 见表1 (ACA: In table 1,  $f=50$  Hz)

表 1 (Table 1)

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)
1200A	50.0	50.00	0.0	$\pm 1.1$	Pass
	104	100.00	+ 4	$\pm 5$	Pass
	204	200.00	+ 4	$\pm 6$	Pass
	400	400.00	0	$\pm 11$	Pass
	600	600.00	0	$\pm 15$	Pass
	788	800.00	- 12	$\pm 19$	Pass
	977	1000.00	- 23	$\pm 23$	Pass

三、交流电压: 见表2 (ACA: In table 2,  $f=50$  Hz)

表 2 (Table 2)

回路 Channel	量程 Range	示值 Indication Value (V)	实际值 Reference Value (V)	误差 Error (V)	允许误差 MPE (V)	结论 conclusion (Pass/Fail)
U1	600V	50.0	50.00	0.0	$\pm 1.1$	Pass
		100.4	100.00	+ 0.4	$\pm 1.8$	Pass
		197	200.00	- 3	$\pm 6$	Pass
		298	300.00	- 2	$\pm 7$	Pass
		400	400.00	0	$\pm 9$	Pass
		501	500.00	+ 1	$\pm 11$	Pass
U2	600V	50.0	50.00	0.0	$\pm 1.1$	Pass
		100.3	100.00	+ 0.3	$\pm 1.8$	Pass
		198	200.00	- 2	$\pm 6$	Pass
		298	300.00	- 2	$\pm 7$	Pass
		399	400.00	- 1	$\pm 9$	Pass
		500	500.00	0	$\pm 11$	Pass
U3	600V	50.1	50.00	+ 0.1	$\pm 1.1$	Pass
		97	100.00	- 3	$\pm 4$	Pass
		198	200.00	- 2	$\pm 6$	Pass
		298	300.00	- 2	$\pm 7$	Pass
		399	400.00	- 1	$\pm 9$	Pass
		500	500.00	0	$\pm 11$	Pass



华南国家计量测试中心  
广东省计量科学研究所  
SOUTH CHINA NATIONAL CENTER OF METROLOGY  
GUANGDONG INSTITUTE OF METROLOGY



# 校准结果

## RESULTS OF CALIBRATION

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说明(Notes):

1. 测量结果的相对扩展不确定度(The Relative Expanded Uncertainty of Measurement):

交流电流(ACA)  $U_{rel} = 0.13\%$  交流电压(ACV)  $U_{rel} = 0.05\%$

(包含因子  $k=2$  依据 JJF1059-1999 测量结果不确定度评定与表示)

(Coverage factor  $k=2$ , According to JJF1059-1999 Evaluation and Expression of Uncertainty in Measurement)

2. 建议校准周期不超过1年。

The period of calibration advised within one year.

