



# 华南国家计量测试中心广东省计量科学研究院

SOUTH CHINA NATIONAL CENTER OF METROLOGY
GUANGDONG INSTITUTE OF METROLOGY

# 校准证书

#### **CALIBRATION CERTIFICATE**

证书编号 GDDL202400109 Certificate No.

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委托方 Client	忧利德科技(中国)股份有限公司 								
委托方联络信息 Contact Information	广东省东莞市松山湖园区工业北一路6号								
计量器具名称 Description	大口径钳形漏电电流表(钳形电流表)								
型号规格 Model/Type	UT253A								
制造厂 Manufacturer	UNI-T	in the							
出厂编号 Serial No.	A SCH M. SC		设备编号 Equipme		53A-01#				
接收日期 Date of Receipt		2024	年 02 Y	月 25 M	9 日 D				
结果 Results	见校准结果		S Call	11 3 2 pl					
校准日期 Date of calibra	ation	2024	年 03 Y	月 0 M	1 日 D				

批 准 人
Approved Signatory
核 验
Reviewed by
校 准
Calibrated by

ポカス 何供波
何供波

证书专用章 Stamp



东莞地址:广东省东莞市石排镇东园大道石排段152号 邮政编码: 523343 电话: (0769)22200760 传真: (0769)22692542 E-mail: yws@scmdg.com.cn Add:No.152, Shipai Duan, Dongyuan Road, Shipai Town, Dongguan, Guangdong, China. Post Code: 523343 Tel: (0769)22200760 Fax: (0769)22692542



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DIRECTIONS

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1. 本中心是国家市场监督管理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 17025:2017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 17025:2017.

2. 本中心所出具的数据均可溯源至国家计量基准和/或国际单位制(SI)。

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

3. 校准地点、环境条件:

Place and environmental conditions of the calibration:

地点 A4-403电力实验室

温度 (19.5~19.7) °C 相对湿度  $(51\sim51)\%$ 

Place

Temperature

4. 本次校准的技术依据:

Reference documents for the calibration:

JJF 1075-2015 钳形电流表校准规范 C.S. of Clamp Ammeters

5. 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/型号规格/测量范围

Name of Equipment

/Model/Type/Range

钳形电流表检定装置

/TD1050/DCV:20mV~1000V;D CI: 10mA~2000A; ACV: 1V~75

OV; ACI: 10mA~2000A; DCR: 10

 $\Omega \sim 110 M \Omega$ 

编号

Serial No.

23070220101

证书号/有效期/溯源单位

Certificate No./Due Date

/Traceability to

DBB202301197

/2024-08-31

/省计量院

计量特性 Metrological

Characteristic

DCV:  $\pm 0.02\%$ ; DCI:  $\pm 0.02\%$ ; AC

 $V: \pm 0.02\%$ ; ACI:  $\pm 0.02\%$ ; DCR:  $\pm 0.05\%$ ; DCW:  $\pm 0.10\%$ ; ACW:  $\pm$ 

0.10%;  $\Phi:\pm 0.05^{\circ}$ 

注: 1. 本证书校准结果只与受校准仪器有关。 The results relate only to the items calibrated.

Note: 2. 未经本机构书面批准,不得部分复制此证书。 This certificate shall not be reproduced except in full, without the written approval of our laboratory.

<sup>3. &</sup>quot;委托方"、"委托方联络信息"由委托方提供,"制造厂"、"型号规格"、"出厂编号"以及"设备编号"为仪器上标注。 The information Client and Contact Information are provided by client, and the Manufacturer, Model/Type, Serial No. and Equipment No. are marked on the items.

<sup>4.</sup> 本次校准日期视为发布日期。 The calibration date is the date of issue of the certificate.



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### 校准结果 RESULTS OF CALIBRATION

证书编号 GDDL202400109 Certificate No. 原始记录号 202400109 Record No.

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一、交流电流: 见表1

ACA: Shown in table 1

表1 Table 1

测试频率	量程	标准值	指示值	误差	允许误差	结论
Freq	Range	Reference Value	Indication Value	Error	MPE	Conclusion
(Hz)	(A)	(A)	(A)	(A)	(A)	P/F
50	300	3.00	2.97	-0.03	±0.07	Pass
		30.0	29.7	-0.3	±0.7	Pass
		100.0	98.7	-1.3	±1.8	Pass
		200	197	-3	±6	Pass
		290	287	-3	±7	Pass
	1200	310	303	-7	±9	Pass
		600	593	-7	±15	Pass
		1190	1184	-6	±27	Pass
	2000	1300	1299	-1 (1)	±42	Pass
		1500	1501	1	±48	Pass
		1900	1902	2	±60	Pass

说明:

Note:

1.本次测量结果的扩展不确定度:

The Expanded Uncertainty of Measurement:

交流电流:Urel=0.6%;

包含因子k=2,本证书中给出的扩展不确定度依据JJF1059.1-2012《测量不确定度评定与表示》评定,由合成标准不确定度乘以包含概率约为95%时对应的包含因子k得到。

Coverage factor k=2, the expanded uncertainty given in this certificate is evaluated according to JJF 1059.1-2012 Evaluation and Expression of Uncertainty in Measurement, which is obtained by multiplying the combined standard uncertainty by the coverage factor k corresponding to the coverage probability of about 95%.

- 2. 校准结果符合性判定依据JJF1094-2002《测量仪器特性评定》第5. 3. 1条款和该仪器说明书技术要求。 Decision rules of conformity is JJF1094-2002 *Evaluation of the Characteristice of Measuring Instruments(5.3.1)* and 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。更换重要部件、维修或对仪器性能有怀疑时,



## 校准结果 RESULTS OF CALIBRATION

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应及时校准。

According to the demand of reference document, next calibration is proposed within 1 year. In case of replacement of important parts, maintenance or doubt on the performance of the instrument, it shall be calibrated in time.