

校准证书
CALIBRATION CERTIFICATE

证书编号:



Certificate No.

J202302080310A-0005-G1

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of

委托方

A-LAB CERTIFICACOES E ENSAIOS LTDA

Client

联络信息

Rua Moema, 49 - Osasco - SP - Brazil

Contact Inf.

仪器名称

Voltage Dips and Interruptions Generator

Description

型号/规格

CSS61000-11

制造厂

LISUN GROUP

Model/Type

Manufacturer

出厂编号

1120P122223

管理号

Serial No.

Asset No.

接收日期

2023年02月15日

校准日期

2023年02月15日

Receipt Date

Y M D

Cal. Date

Y M D

发布日期

2023年02月15日

Issued Date

Y M D

批准

Approved by

李文兴

李文兴

审核

Inspected by

刘灿星

刘灿星

校准

Calibrated by

邵松军

邵松军

证书专用章

(Stamp)

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扫一扫验真伪

校准说明 DIRECTIONS OF CALIBRATION

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- 1.本实验室的质量管理体系符合ISO/IEC 17025:2017标准的要求,校准结果均可溯源至国际单位制(SI)。
(The quality system is in accordance with ISO/IEC 17025:2017,the calibration results are traceable to the International System of Units (SI).)
- 2.本结果仅对本次校准样品有效。未经实验室批准,不得部分复制。如有疑问请在15个工作日内反馈。
(The result is only valid for the calibrated sample.The certificate shall not be reproduced except in full,without the written approval of our laboratroty .please feedback to us within 15 days if you have any question.)
- 3.本证书编号具有唯一性,后缀若带有“-Gx”的证书为替换证书,自发出后原证书即刻作废。
(Each certificate has a unique number. The suffix of "-Gx" will be added to the number as a replacement of the old version. The original certificate will be officially invalid once the new certificate number is issued.)
- 4.证书中最大允许误差、判定结果仅供参考,其中“P”代表“合格”,“F”代表“不合格”,“N/A”代表“不适用”。使用人员应结合实际测量需求,评估测量不确定度对符合性评定的影响。(MPE & judgement result in the datasheet is only for reference, "P" is "Pass", "F" is "Fail" and "N/A" is "Not Applicable".Whereas users should evaluate the effects of MU of calibration results on conformance assessment by actual measurement.)
- 5.本次校准的技术依据及CNAS认可范围,超出范围的内容未被认可。详细认可范围请查看CNAS网站证书附件。(Reference document and accredited scope by CNAS for calibration, beyond which isn't accredited. Please see the attachment of certificate on CNAS website for details.)

JJF 1673-2017 电压暂降、短时中断和电压变化试验发生器校准规范 (C.S. of Voltage Dips, Short Interruptions and Voltage Variations Test Generators) 输出电压: (0.1~500)V; 上升/下降时间: 1μs~10s; 时间间隔: 10μs~60s; 相角: 0.01°~360°

6. 本次校准使用的主要测量标准(Main Standards of Measurement Used in the Calibration.):

名称	编号	证书号/有效期	溯源机构	技术特征
Description	Serial No.	Certificate No./ Due Date	Traceability Institute	Technique Character
示波器	C058276	J202211301890- 0041 2023-12-19	广州广电计量检测股份有限公司	直流增益:±1.5%;时基:±10ppm
差分探头	C032025	J202212302727- 0079 2024-02-02	广州广电计量检测股份有限公司	±2%

7. 校准地点、环境条件(Place and environmental conditions of the calibration):

地点	客户三楼实验室	温度	21	℃	相对湿度	52	%
Place		Temperature			Relative Humidity		

8. 建议复校时间间隔: 1年,送校单位也可按实际使用情况自主决定。

Suggested calibration interval is 1 year or it can be altered depending on the actual usage of the user.

校准结果 RESULTS OF CALIBRATION

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1、外观以及一般性检查: 正常

In view of External and Generality check : Pass

2、跌落电压的校准(Calibration of Dip Voltage):

设定值 Settings (V)	实测值 Measured (V)	误差 Error (V)	不确定度 $U(k=2)$ (V)	允许值 Limit (V)	结论 Conclusion (Pass/Fail)
0	0.1	-0.1	2.0	< 5.0	P
设定值 Settings (%)	实测值 Measured (%)	误差 Error (%)	不确定度 $U_{rel}(k=2)$ (%)	允许值 Limit (%)	结论 Conclusion (Pass/Fail)
40	40.1	-0.1	3.6	± 5.0	P
70	70.5	-0.5	3.6	± 5.0	P
80	80.5	-0.5	3.6	± 5.0	P

3. 跌落持续时间的校准: (Calibration of Dip Time):

设定值 Setting (ms)	实测值 Measured (ms)	误差 Error (ms)	不确定度 $U_{rel}(k=2)$ (%)	允许误差 MPE (ms)	结论 Conclusion (Pass/Fail)
20	20.2	-0.2	3.0	± 4.0	P
50	50.2	-0.2	3.0	± 10.0	P
100	100.4	-0.4	3.0	± 20.0	P
200	201	-1	3.0	± 40	P
500	502	-2	3.0	± 100	P
800	804	-4	3.0	± 160	P
1000	1008	-8	3.0	± 200	P

4、跌落周期 (Drop Continuance Interval)

设定值 Setting (s)	实测值 Measured (s)	误差 Error (s)	不确定度 $U_{rel}(k=2)$ (%)	允许误差 MPE (s)	结论 Conclusion (Pass/Fail)
1	1.00	0.00	3.0	± 0.20	P
2	1.99	0.01	3.0	± 0.40	P
5	5.00	0.00	3.0	± 1.00	P
9	8.96	0.04	3.0	± 1.80	P

5. 跌落相位的校准(Calibration of Phase):

标称值 Nominal (°)	实测值 Measured (°)	误差 Error (°)	不确定度 $U_{rel}(k=2)$ (%)	允许误差 MPE (°)	结论 Conclusion (Pass/Fail)
90	92	-2	3.8	± 10	P
180	184	-4	3.8	± 10	P
270	272	-2	3.8	± 10	P

校 准 结 果
RESULTS OF CALIBRATION

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6、上升时间: (Rise Time):

实测值 Measured (μs)	不确定度 $U_{\text{rel}}(k=2)$ (%)	允许值 Limit (μs)	结 论 Result (Pass/Fail)
1.6	5.2	1~5	P

7、下降时间: (Decline Time):

实测值 Measured (μs)	不确定度 $U_{\text{rel}}(k=2)$ (%)	允许值 Limit (μs)	结 论 Result (Pass/Fail)
2.2	5.2	1~5	P

备注:

Notes:

结论(Conclusion): 所校项目符合技术要求

1.本报告中的扩展不确定度是由标准不确定度乘以包含概率约为95%时的包含因子 k 。

The expanded uncertainty is given in the report by the standard uncertainty multiplied by the probability of about 95% when the factor k .

2.依据(Reference document)

JJF 1059.1-2012 测量不确定度评定与表示

(JJF 1059.1-2012 Evaluation and Expression of Uncertainty in Measurement)

3.上升/下降时间参数配客户100 Ω 负载校准

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