

校准证书

CALIBRATION CERTIFICATE

证书编号:

Certificate No.



J202301043852-0001-G1

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委托方

Client

Trinidad and Tobago Bureau of Standards

联络信息

Contact Inf.

1-2 Century Drive, Trincity Industrial Estate, Macoya, Tunapuna
Trinidad and Tobago, W.I.

仪器名称

Description

Withstanding Voltage & Insulation Test

型号/规格

Model/Type

LS9923

制造厂

Manufacturer

LISUN GROUP

出厂编号

Serial No.

LS1LS992321

管理号

Asset No.

接收日期

Receipt Date

2023年01月05日

校准日期

Cal. Date

2023年01月12日

Y M D

发布日期

Issued Date

2023年01月12日

Y M D

批准

Approved by

赵大星

赵大星

审核

Inspected by

吴心阳

吴心阳

校准

Calibrated by

付鑫

付鑫

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 laboratroy .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.)

JJG 795-2016 耐电压测试仪检定规程(V.R. of Withstadinng Voltage Testers): (耐电压测试仪) 交流电流: (0.1~100)mA(45Hz~65Hz); 交流电压: (0.1~15)kV(45Hz~65Hz); 时间: (1~999)s; 直流电流: (0.1~100)mA; 直流电压: (0.1~15)kV

JJG 1005-2019 电子式绝缘电阻表检定规程(V.R. o Electronic Insulation Resistance Meters) 电压: 25V~10kV; 电阻: 0.1MΩ~1TΩ

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
绝缘电阻表检定装置	9217008	J202202076648- 0008 2023-02-08	广州广电计量检 测股份有限公司	电阻: ±(0.2%~5%); 电 压: ±(1% 读数+0.2%量 程)
耐电压测试仪校验装置 Withstand voltage tester verification device	8717010330	J202204027492- 0009 2023-04-06	广州广电计量检 测股份有限公司 GRGTEST	0.2级

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

地点 无锡计量电子室 温度 21 °C 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、交流电压的校准 (Calibration of AC Voltage): @50Hz

量程 Range (kV)	标称值 Nominal (kV)	实测值 Measured (kV)	误差 Error (kV)	不确定度 $U(k=2)$ (kV)	允许误差 MPE (kV)	结论 Conclusion (Pass/Fail)
5	1	0.991	0.009	0.016	± 0.023	P
	2	1.964	0.036	0.017	± 0.043	P
	3	2.943	0.057	0.020	± 0.063	P
	4	3.918	0.082	0.024	± 0.083	P
	5	4.898	0.102	0.030	± 0.103	P

3、直流电压的校准 (Calibration of DC Voltage):

量程 Range (kV)	标称值 Nominal (kV)	实测值 Measured (kV)	误差 Error (kV)	不确定度 $U(k=2)$ (kV)	允许误差 MPE (kV)	结论 Conclusion (Pass/Fail)
5	1	0.994	0.006	0.016	± 0.023	P
	2	1.991	0.009	0.017	± 0.043	P
	3	2.986	0.014	0.020	± 0.063	P
	4	3.981	0.019	0.024	± 0.083	P
	5	4.977	0.023	0.030	± 0.103	P

4、交流击穿电流的校准 (Calibration of AC CUT-OFF Current): @50Hz

标称值 Nominal (mA)	实测值 Measured (mA)	误差 Error (mA)	不确定度 $U(k=2)$ (mA)	允许误差 MPE (mA)	结论 Conclusion (Pass/Fail)
0.5	0.497	0.003	0.004	± 0.013	P
1	0.989	0.011	0.009	± 0.023	P
2	1.977	0.023	0.018	± 0.043	P
5	4.91	0.09	0.04	± 0.13	P
10	9.83	0.17	0.08	± 0.23	P
19	18.78	0.22	0.14	± 0.41	P

5、直流击穿电流的校准 (Calibration of DC CUT-OFF Current):

标称值 Nominal (mA)	实测值 Measured (mA)	误差 Error (mA)	不确定度 $U(k=2)$ (mA)	允许误差 MPE (mA)	结论 Conclusion (Pass/Fail)
0.5	0.494	0.006	0.004	± 0.013	P
1	0.985	0.015	0.009	± 0.023	P
2	1.965	0.035	0.018	± 0.043	P
5	4.89	0.11	0.04	± 0.13	P
10	9.81	0.19	0.07	± 0.23	P

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校准结果 RESULTS OF CALIBRATION

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6、电压持续时间的校准(Calibration of Voltage Duration Time):

标称值 Nominal (s)	实测值 Measured (s)	误差 Error (s)	不确定度 $U(k=2)$ (s)	允许误差 MPE (s)	结论 Conclusion (Pass/Fail)
10	10.02	-0.02	0.15	± 0.50	P
30	30.03	-0.03	0.36	± 1.50	P
60	60.06	-0.06	0.55	± 3.00	P

7、绝缘测量电压的校准 (Calibration of Insulation Test Voltage):

标称值 Nominal (V)	实测值 Measured (V)	误差 Error (V)	不确定度 $U(k=2)$ (V)	允许误差 MPE (V)	结论 Conclusion (Pass/Fail)
500	494	6	6	± 10	P
1000	992	8	12	± 15	P

8、绝缘电阻的校准 (Calibration of Insulation Resistance):

电压 Voltage (V)	标准值 Reference (M Ω)	示值 Indication (M Ω)	误差 Error (M Ω)	不确定度 $U(k=2)$ (M Ω)	允许误差 MPE (M Ω)	结论 Conclusion (Pass/Fail)
500	1	1.0	0.0	0.1	± 0.4	P
	2	2.0	0.0	0.1	± 0.4	P
	5	5.0	0.0	0.2	± 0.6	P
	10	10.1	0.1	0.3	± 0.8	P
	100	95.5	-4.5	1.2	± 5.3	P
	(G Ω)	(G Ω)	(G Ω)	(G Ω)	(G Ω)	
1000	1	1.07	0.07	0.05	± 0.15	P
	(M Ω)	(M Ω)	(M Ω)	(M Ω)	(M Ω)	
	1	1.0	0.0	0.1	± 0.4	P
	2	2.0	0.0	0.1	± 0.4	P
	5	5.0	0.0	0.2	± 0.6	P
	10	10.1	0.1	0.3	± 0.8	P
100	97.1	-2.9	1.2	± 5.3	P	
(G Ω)	(G Ω)	(G Ω)	(G Ω)	(G Ω)		
1	1.02	0.02	0.05	± 0.15	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)

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