



# 校准证书

CALIBRATION CERTIFICATE



证书编号: ZL202512045001  
Certificate No.

第 1 页, 共 3 页  
Page 1 of 3 Pages

委托方: 深圳市乐达精密工具有限公司  
Client

委托方地址: 深圳市福田区华强北街道华强广场B座20层20K号房  
Address

仪器名称: 直流稳压电源  
Description

型号/规格: LKS3005  
Model/Type

制造商: LODESTAR  
Manufacturer

出厂编号: 0122555  
Serial No.

管理编号: /  
Asset No.

接收日期: 2025 年 12 月 04 日  
Date of Receipt Year Month Day

校准日期: 2025 年 12 月 04 日  
Date of calibration Year Month Day

批准人: 张忠军  
Approved by

签发日期: 2025 年 12 月 09 日  
Date of issue Year Month Day

核验员: 张忠军  
Checked by

校准员: 冯景雅  
Calibrated by



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证书编号：  
Certificate No. ZL202512045001

第 2 页，共 3 页  
Page 2 of 3 Pages

## 校准说明

DIRECTIONS OF CALIBRATION

- 本报告未经签章无效，数据涂改无效。  
It will be ineffective without certification, and the change of data will be ineffective, too.
- 本证书的校准结果仅对所校准样品有效。  
The results of this certificate are only responsible for the item calibrated.
- 本证书中的测量结果均可溯源至国际单位制（SI）；未经本实验室书面批准，不得部分复制校准证书。  
All measurements in this certificate are traceable to the International System of Units (SI); This certificate shall not be reproduced except in full, without the written approval of our laboratory.
- 证书中如有最大允许误差、技术要求、结果判定，仅供参考，其中“Pass”代表“符合”，“Fail”代表“不符合”。使用人员还应结合实际测量需求，评估校准结果测量不确定度对符合性判定的影响。  
MPE、technical requirement & judgement result in the datasheet is only for reference, "Pass" represents "Calibration results passed" and "Fail" represents "Calibration results failed". whereas users should evaluate the effects of measurement uncertainty of calibration results on conformity determination associated with actual measurement.
- 本次校准的技术依据及CNAS认可范围，带\*号超出范围的内容未被认可。注：详细的认可范围请查看CNAS网站中注册编号为L15041的证书附件。  
Reference document and accredited scope by CNAS for calibration, beyond which isn't accredited. Please see the attachment of certificate NO.L15041 on CNAS website for details.  
参照JJF 1597-2016《直流稳定电源校准规范》
- 本次校准使用的主要测量标准：  
Main Standards of Measurement Used in the Calibration

| 设备名称<br>Name of Equipment | 溯源单位<br>Traceability | 编号/型号<br>Serial No./Model | 证书号/有效期<br>Certificate No./Due Date | 计量特性<br>Metrological Characteristic   |
|---------------------------|----------------------|---------------------------|-------------------------------------|---|
| 数字多用表                     | 深圳市中量检测技术有限公司        | 90600506                  | ZL25AA000920006/<br>2026-03-09      | DCV: $\pm 0.025\%$ ;<br>DCA: $\pm 0.05\%$ ; OHM:<br>$\pm 0.05\%$ ; ACV:<br>$\pm 0.3\%$ ; ACA: $\pm 0.6\%$ |
| 高精度数字电流表                  | 广电计量检测集团股份有限公司       | L16015                    | J202508263657-<br>0008/2026-09-01   | 10A: $U = (0.00005 \sim$<br>$0.00050) A (k=2)$ ;<br>100A: $U = (0.0005 \sim$<br>$0.013) A (k=2)$          |

- 校准地点、环境条件：  
Place and environmental conditions of the calibration  
地点： 本公司实验室  
Place  
温度： 21.5 °C  
Temperature  
湿度： 55 %RH  
Humidity
- 建议复校时间间隔： 12个月，送检单位可根据实际情况自主决定。  
Suggested calibration interval: 12 month or it can be altered depending on the actual usage of the user.



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第 3 页, 共 3 页  
page 3 of 3 pages

## 校准结果

Results of Calibration

1、外观以及一般性检查: 正常

In view of External and Generality check : Pass

2、直流电压: ( DC voltage)

| 量程<br>Range<br>(V) | 仪器示值<br>Indication<br>(V) | 实测值<br>Measured<br>(V) | 误差<br>Error<br>(V) | 不确定度<br>$U(k=2)$<br>(V) | 允许误差<br>MPE<br>(V) | 结论<br>Conclusion<br>(Pass/Fail) |
|--------------------|---------------------------|------------------------|--------------------|-------------------------|--------------------|---------------------------------|
| 32                 | 5.00                      | 4.998                  | -0.002             | 0.003                   | ± 0.035            | Pass                            |
|                    | 10.00                     | 9.994                  | -0.006             | 0.005                   | ± 0.040            | Pass                            |
|                    | 15.00                     | 14.992                 | -0.008             | 0.008                   | ± 0.045            | Pass                            |
|                    | 20.00                     | 19.988                 | -0.012             | 0.010                   | ± 0.050            | Pass                            |
|                    | 25.00                     | 24.983                 | -0.017             | 0.013                   | ± 0.055            | Pass                            |
|                    | 32.00                     | 31.976                 | -0.024             | 0.016                   | ± 0.062            | Pass                            |

3、直流电流: ( DC current)

| 量程<br>Range<br>(A) | 仪器示值<br>Indication<br>(A) | 实测值<br>Measured<br>(A) | 误差<br>Error<br>(A) | 不确定度<br>$U(k=2)$<br>(A) | 允许误差<br>MPE<br>(A) | 结论<br>Conclusion<br>(Pass/Fail) |
|--------------------|---------------------------|------------------------|--------------------|-------------------------|--------------------|---------------------------------|
| 5                  | 1.000                     | 0.9998                 | 0.0002             | 0.0010                  | ± 0.0040           | Pass                            |
|                    | 2.000                     | 1.9995                 | 0.0005             | 0.0020                  | ± 0.0050           | Pass                            |
|                    | 3.000                     | 2.9992                 | 0.0008             | 0.0030                  | ± 0.0060           | Pass                            |
|                    | 4.000                     | 3.9989                 | 0.0011             | 0.0040                  | ± 0.0070           | Pass                            |
|                    | 5.000                     | 4.999                  | 0.0010             | 0.0050                  | ± 0.0080           | Pass                            |

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