



校准证书

CALIBRATION CERTIFICATE

证书编号: 2GB19D40017-0001
Certificate No.



委托单位: MATRIX TECHNOLOGY INC.
Client

委托方地址: NO.209,B uilding C,Hua chuang da. hai hui road. baoan district. shenzhen. Guangdong. China
Address

仪器名称: DC POWER SUPPLY
Description

型号规格: MPS-3206
Model/Type

制造商: MATRIX
Manufacturer

机身号: 1908D3206014
Serial No.

接收日期: 2019年11月12日 校准日期: 2019年11月21日
Rec. Date Cal. Date

签发日期: 2019年11月22日 建议再校日期: 2020年11月21日
App. Date Next Cal. Date

结论: 所校准项目合格(Passed at Calibration Items)
Conclusion

校准: 孙成椰
Calibrated by

签发: 王洪喜
Approved by

核验: 黄安娜
Inspected by

印章:
Stamp

说 明

DIRECTIONS

1. 本机构质量管理体系符合ISO/IEC 17025的要求, 获得中国合格评定国家认可委员会(CNAS)认可, 认可证书号为: CNAS L0462。

This laboratory quality management system meets the ISO/IEC 17025 and is accredited by the China National Accreditation Service for Conformity Assessment, No. CNAS L0462.

2. 本次校准的技术依据及CNAS认可范围(Reference documents and CNAS accredited scopes):

▪ JJF 1597-2016 直流稳定电源校准规范: 直流电压:1mV~1000V;直流电流:1mA~3000A;负载效应:1mV~1000V;源效应:1mV~1000V;纹波电压:0.01mV~1V

* 详细内容请查看CNAS网站中注册编号为L0462的证书附件, 超出范围的内容未被认可。(Please see the attachment of certificate No. L0462 at CNAS website for details, beyond which is not accredited).

3. 本次校准所使用的主要测量标准(The main measurement standards used during the calibration):

名称 (Description)	证书号/有效期/溯源单位 (Certificate No./Due Date/Traceability to)	技术指标 (Specification)
交流毫伏表	4GC19000181-0030/2020-04-02/赛宝	±1%
数字万用表	4GC19000128-0020/2020-03-17/赛宝	DCV: ±0.0035%; ACV: ±0.06%; DCI: ±0.05%; ACI: ±0.1%; R: ±0.01%; f: ±0.01%

4. 校准地点(The calibration place):

广州市天河区东莞庄路110号401楼电磁室

5. 环境条件(Environmental conditions):

温度(Temperature): 20℃ 相对湿度(Relative Humidity): 60%

6. 依据《JJF 1059.1-2012 测量不确定度评定与表示》进行测量结果不确定度评定。评定结果以包含因子为 k 的扩展不确定度 U 或相对扩展不确定度 U_{rel} 表示。

The evaluation was made according to JJF 1059.1-2012 Evaluation and Expression of Uncertainty in Measurement. The evaluation results were expressed by the extended uncertainty U or relative expanded uncertainty U_{rel} with a coverage factor k .

7. 证书中"P"、"合格"代表"测量结果在允许范围内", "F"、"不合格"代表"测量结果不在允许范围内", "N/A"代表"不适用"。本证书报告的判定规则和结论仅供参考, 使用人员应结合实际测量的要求合理使用, 如考虑测量结果测量不确定度的影响等。

"P" and "Pass" in this certificate stand for "Low Limit ≤ the measured value ≤ High Limit", "F" and "Fail" stand for "the measured value < Low Limit or the measured value > High Limit", "N/A" stands for "Not Applicable". The judgment rules and conclusions of this certificate are for reference only. Users should use them reasonably according to the actual measurement requirements, such as considering the impact of measurement uncertainty, etc.

8. 建议再校日期是本实验室依据本证书报告的技术依据和仪器设备常规使用条件给出的建议, 供委托方参考。委托方可以根据实际使用情况自行决定样品的再校准日期。

The recommended date of recalibration is based on the reference documents and the normal operating conditions of the calibrated instrument. It is only for reference. The client may decide the date of recalibration of the instrument according to actual use.

注: 1. 本证书未经本机构书面授权, 不得部分复制。(The certificate shall not be partly reproduced without written approval of the laboratory.)

2. 本次校准结果仅与被校物有关。(The results are only related to the items calibrated.)

1. 外观与工作正常性检查(Appearance and Function Check)

无影响证书中校准结果准确度的因素和缺陷。

There are no factor and defect that affect the calibration result accuracy of the certificate.

2. 电压表(Voltage Meter)

量程 (Range)	指示值 (Indicated)	标准值 (Reference)	误差 (Error)	允许误差 (Limit)	结论 (Pass/Fail)	U ($k=2$)
(V)	(V)	(V)	(V)	(V)		(V)
30	2.00	2.006	-0.006	±0.102	P	0.02
	4.00	3.998	0.002	±0.104	P	0.02
	6.00	5.998	0.002	±0.106	P	0.02
	8.00	8.002	-0.002	±0.108	P	0.02
	10.00	9.998	0.002	±0.110	P	0.02
	12.00	11.999	0.001	±0.112	P	0.02
	14.00	13.998	0.002	±0.114	P	0.02
	16.00	16.007	-0.007	±0.116	P	0.02
	18.00	17.999	0.001	±0.118	P	0.02
	20.00	19.998	0.002	±0.120	P	0.02
	22.00	21.997	0.003	±0.122	P	0.02
	24.00	24.001	-0.001	±0.124	P	0.02
	26.00	25.998	0.002	±0.126	P	0.03
	28.00	27.996	0.004	±0.128	P	0.03
30.00	30.003	-0.003	±0.130	P	0.03	

3. 电流表(Ammeter)

量程 (Range)	指示值 (Indicated)	标准值 (Reference)	误差 (Error)	允许误差 (Limit)	结论 (Pass/Fail)	U (k=2)
(A)	(A)	(A)	(A)	(A)		(A)
5	0.300	0.2991	0.0009	±0.0036	P	0.001
	0.500	0.4994	0.0006	±0.0040	P	0.001
	1.000	0.9986	0.0014	±0.0050	P	0.001
	1.300	1.2988	0.0012	±0.0056	P	0.001
	1.500	1.4991	0.0009	±0.0060	P	0.001
	2.000	1.9995	0.0005	+0.0070	P	0.002
	2.300	2.2986	0.0014	±0.0076	P	0.002
	2.500	2.4975	0.0025	±0.0080	P	0.002
	3.000	2.9982	0.0018	±0.0090	P	0.003
	3.300	3.2982	0.0018	±0.0096	P	0.003
	3.500	3.4996	0.0004	±0.0100	P	0.003
	4.000	3.9986	0.0014	±0.0110	P	0.003
	4.300	4.2984	0.0016	±0.0116	P	0.003
	4.500	4.4981	0.0019	±0.0120	P	0.004
	5.000	4.9986	0.0014	±0.0130	P	0.004

4. 源效应(Line Regulation)

电源电压 (Line Voltage)	输出电压 (Output Voltage)	误差 (Error)	允许误差 (Limit)	结论 (Pass/Fail)	U (k=2)
(V)	(V)	(mV)	(mV)		(mV)
198	30.002	-1	±8	P	0.9
220	30.003	(Ref.)			0.9
242	30.004	1	±5	P	0.9

5. 负载效应(Load Regulation)

模式 (Mode)	负载 (Load)	输出电压 (Output Voltage)	误差 (Error)	允许误差 (Limit)	结论 (Pass/Fail)	U (k=2)
		(V)	(mV)	(mV)		(mV)
C.V	Full Load	29.993	10	±35	P	0.9
	Open	30.003	(Ref.)			0.9

6. 纹波(Ripple)

标准值 (Reference) (Vrms)	允许范围 (Limit) (Vrms)	结论 (Pass/Fail)	U ($k=2$) (mVrms)
2.34	≤ 10	P	0.1

注: 按客户要求校准

以下空白/No data hereafter