

上海市质量监督检验技术研究院

Shanghai Institute of Quality Inspection and Technical Research



中国认可
国际互认
校准

校准证书

CALIBRATION CERTIFICATE

证书编号: J17126900469 号
Certificate No.

客户名称

Customer

Electrical Inspector-Meter Testing and Standards Laboratory, Department of Electrical Inspectorate

客户地址

Address of customer

Engineering College P.O, Thiruvananthapuram-695016, Kerala, India

计量器具名称

Name of Samples

Digital Power Meter (数字功率计)

型号 / 规格

Type/Specification

LS2010

出厂编号

Series No.

DYGMQ100021

制造单位

Manufacturer

Lisun Electronics Inc.



批准人

Approved by

孙晓虹

核验员

Checked By

朱嘉宁

校准员

Calibrated By

倪华

校准日期 2017 年 5 月 26 日
Date of calibration Year Month Day

地址(Address): 上海市江月路900号

邮编(Post Code): 201114

电话(Telephone): 021-54336359;54336353

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本次计量所依据的技术文件(代号、名称):

Reference documents for the calibration (code、name)

JJG 780 - 1992 交流数字功率表检定规程(AC Digital Power Meter Test Procedures)
JJF(沪)1-2003 数字多用表校准规范(Digital Multimeter Calibration Specification)
SQI/JL-BD-40 交流数字功率表不确定度评定(AC Digital Power Meter Uncertainty Evaluation)

计量地点及环境条件:

Location and environmental condition

计量地点: 江月路900号5号楼518室

Location

环境温度: 22 °C;

Ambient temperature

其它: /

Others

相对湿度: 60 %

Relative humidity

本次计量所使用的主要计量标准器具:

Main measurement standards used in this verification

名称/型号 Name/Type	编号 Number	测量范围/准确度 Measuring range/Accuracy	证书编号/有效期限 Certificate No./Due date
多功能校准仪 (Multifunction calibrator)5520A	1118009	电压(Voltage):1V-1000V /±0.03% 电流(Current):0.1mA-20A /±0.05% 功率(Power):0.001W- /±(0.08%- 20000W 0.20%) 频率(Frequency):DC- 100kHz /±0.01%	2016F11-10-001998 2017-9-19

以上计量标准器具的量值均可溯源到国家基准。

Quantity values of above measurement standards used in this calibration are traced to those of the national primary standards in the P.R. China.

结果/说明:

Results and additional explanation

所测数据符合仪器技术要求(The measured data are consistent with the technical requirements of the instrument)

数据见后页(The Test Data Refer Next Page)

本证书提供的结果仅对本次被检(校)样品有效, 未经本院许可, 不得部分采用本证书的内容。

The data are valid only for the Sample(s),Partly using this certificate will not be admitted unless allowed.

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结果/说明 (续页):

Results and additional explanation (continued page)

输入部分测试(Input part test)

电压(Voltage)

实际值(Reference) (V)	(50Hz) 示值(Indication) (V)	(60Hz) 示值(Indication) (V)
24.0	24.0	/
50.0	50.0	/
100.0	99.9	100.0
150.0	149.9	/
200.0	199.9	/
220.0	220.0	219.9
290.0	289.9	/

电流(Current)

实际值(Reference) (A)	(50Hz) 示值(Indication) (A)	(60Hz) 示值(Indication) (A)
0.020	0.020	/
0.050	0.050	/
0.100	0.100	0.100
0.200	0.200	/
0.500	0.500	/
1.000	1.000	1.000
2.000	2.001	/
5.00	5.00	/

频率(Frequency)

实际值(Reference) (Hz)	示值(Indication) (Hz)
50.00	50.01
60.00	60.01

PF(100V/1A@50Hz)

实际值(Reference)	(50Hz) 示值(Indication)	(60Hz) 示值(Indication)
1.0000	1.000	1.000
0.8000C	0.801	/
0.5000C	0.501	/
0.5000L	0.498	0.498
0.3000C	0.302	0.301
0.1000C	0.102	/
0.1000L	0.098	/

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功率 (Power)

电压电流值 (Voltage/Current Value)	(50Hz)		(60Hz)
	实际值 (Reference) (W)	示值 (Indication) (W)	示值 (Indication) (W)
220V/0.01A/PF=1	2.2	2.2	2.2
220V/0.02A/PF=1	4.4	4.4	/
220V/0.05A/PF=1	11.0	11.0	/
220V/0.1A/PF=1	22.0	22.0	/
220V/0.2A/PF=1	44.0	44.0	/
220V/0.5A/PF=1	110.0	110.0	/
220V/1A/PF=1	220.0	220.2	/
220V/1A/PF=0.5	110.0	110	/
220V/1A/PF=-0.5	110.0	110	/
220V/2A/PF=1	440.0	441	/
300V/2A/PF=1	600.0	600.2	600.2
300V/5A/PF=1	1500	1500	1500
100V/0.05A/PF=1	5.0	5.0	5.0
100V/0.1A/PF=1	10.0	10.0	10.0
100V/1A/PF=1	100.0	100.1	100.0
100V/2A/PF=1	200.0	199.8	200.1
50V/2A/PF=1	100.0	100.0	100.0

本次校准电压扩展不确定度(The voltage uncertainties of the calibration) $U_{rel}=0.15\%(k=2)$

本次校准电流扩展不确定度(The current uncertainties of the calibration) $U_{rel}=0.15\%(k=2)$

本次校准功率扩展不确定度(The power uncertainties of the calibration) $U_{rel}=0.15\%(k=2)$

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