

Test Report

Report No.: 200220023GZU-002

Date: 23 Jun., 2020

Applicant: PINGHU CITY HONGKI ELECTRIC CO.,LTD

Applicant Address: NO 133,TONGCHE ROAD,XINCANG TOWN,PINGHU CITY,ZHEJIANG
PROVINC,CHINA

Product: Class 2 Power Supply

Model: HK024-240100AXU

Brand Name: HKI

Rating: Input: 100-120VAC, 50/60Hz, 0.5A
Output: 24.0V=1.0A 24.0W

Requirement: CEC-140-2019-002-- Appliance Efficiency Regulations, (California Code of Regulations, Title 20, Sections 1601 through 1608), dated Sep. 2019, The test method for federally regulated direct operation external power supplies and federally regulated indirect operation Class A external power supplies is 10 C.F.R. section 430.23(bb) (Appendix Z to subpart B of part 430).

Sample Received date: 29 Apr., 2020

Test performed date: 30 Apr., 2020

Testing location: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou
Science City, GETDD, Guangzhou, China

Conclusion: From the results of our testing on the submitted sample(s), we are of the opinion that the submitted sample(s) COMPLY WITH Table U-3 requirement and level VI requirements of External Power Supply International Efficiency Marking Protocol.

Note:

1. This report shall not be reproduced, except in full, without written approval of the laboratory. This test results relate only to the items tested.
2. The results contained in the report are for technical evaluation only and are applicable only to the specific test specimen referenced within the report. When determining the test result measurement uncertainty has been considered.

Prepared by:

Lee

Shuo Lee
Engineer

Approved by:

Spark

Spark He
Reviewer

Test Report

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TECHNICAL INFORMATION

- | | | |
|----|-----------------------------|---|
| 1. | UUT manufacturer: | PINGHU CITY HONGKI ELECTRIC CO.,LTD |
| 2. | Address of manufacturer: | NO 133,TONGCHE ROAD,XINCANG TOWN,PINGHU CITY,ZHEJIANG PROVINC,CHINA |
| 3. | Output cord length: | 1800mm |
| 4. | Built-in switch on the UUT: | None |
| 5. | Product powered by UUT: | General |

General Remark

Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

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The test report only allows to be revised only within the report defined retention period unless standard or regulation was withdrawn or invalid.

General product information

The UUT is non user selectable single output Class 2 Power Supply.

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TEST PROCESS

The tests are carried out in a room that has an air speed close to test sample of < 0.5m/s, and the ambient temperature is maintained at 23°C±5°C. The test voltage were 115V at 60Hz.

The test sample was operated at 100% of nameplate current output for at least 30 minutes immediately prior to conducting efficiency measurements. After this warm-up period, if the power level does not drift by more than 5% from the maximum value observed, the UUT can be considered stable and then the measurements were recorded at the end of the 5 minutes period. Subsequent load conditions can then be measured under the same 5 minutes stability guidelines.

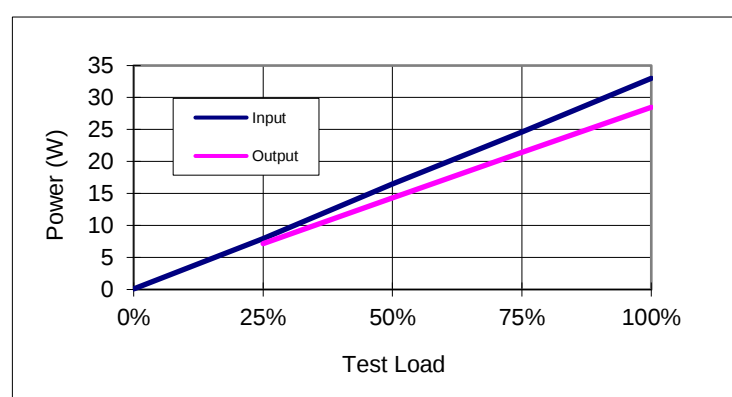
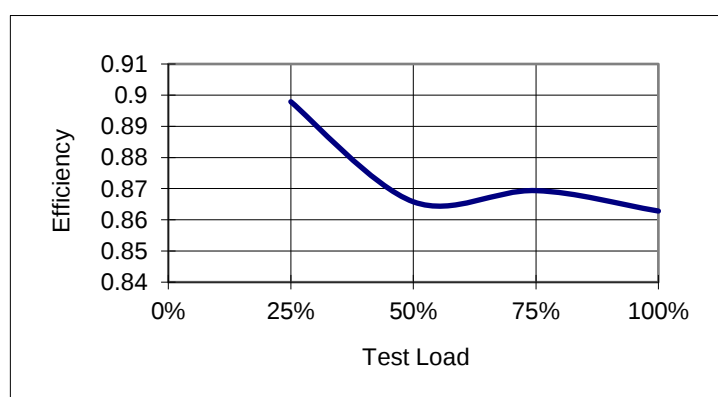
TEST RESULTS

Sample 1 : Test voltage is 115V @ 60Hz

Minimum Efficiency in Active mode

Percent of nameplate current	0%	25%	50%	75%	100%
Rms Output Current (mA)		250	500	750	1000
Rms Output Voltage (V)	28.72	28.66	28.60	28.54	28.48
Active Output Power (W)		7.166	14.302	21.405	28.480
Rms Input Voltage (V)	115	115	115	115	115
Active Input Power (W)	0.10	7.98	16.52	24.62	33.01
Total Harmonic Distortion(THD) V%	0.52	0.53	0.58	0.61	0.69
Total Harmonic Distortion(THD) A%	70.42	189.58	160.82	140.39	125.67
True Power Factor (W/VA)	0.10	0.45	0.51	0.55	0.58
Power Consumed by EUT(W)	0.095	0.815	2.217	3.216	4.528
Efficiency		89.79%	86.58%	86.94%	86.28%
Average Efficiency		87.40%			
Mark VI	0.1	86.20%			
Verdict	Pass	Pass			

Figure



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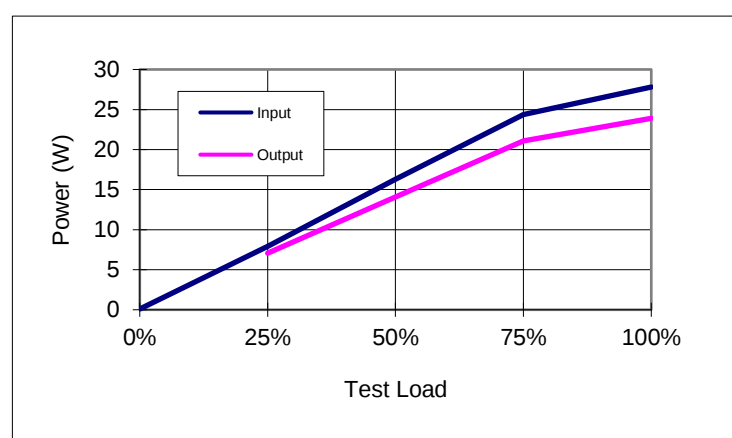
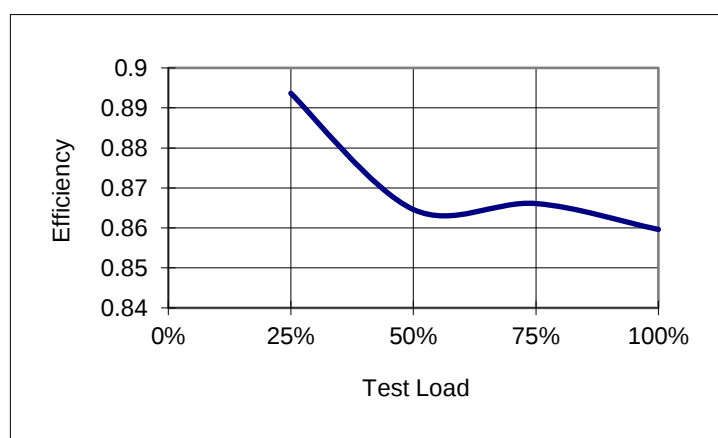
TEST RESULTS

Sample 2: Test voltage is 115V @ 60Hz

Minimum Efficiency in Active mode

Percent of nameplate current	0%	25%	50%	75%	100%
Rms Output Current (mA)		250	500	750	1000
Rms Output Voltage (V)	28.31	28.25	28.19	28.13	23.90
Active Output Power (W)		7.063	14.096	21.095	23.904
Rms Input Voltage (V)	115	115	115	115	115
Active Input Power (W)	0.10	7.90	16.30	24.36	27.81
Total Harmonic Distortion(THD) V%	0.53	0.54	0.53	0.62	0.65
Total Harmonic Distortion(THD) A%	90.21	217.49	192.20	140.96	133.46
True Power Factor (W/VA)	0.11	0.38	0.44	0.55	0.56
Power Consumed by EUT(W)	0.096	0.841	2.208	3.262	3.904
Efficiency		89.36%	86.46%	86.61%	85.96%
Average Efficiency		87.10%			
Mark VI	0.1	86.20%			
Verdict	Pass	Pass			

Figure



Test Result Summary:

Sample Number	Active Efficiency	No-Load Power
Sample 1	87.40%	0.095
Sample 2	87.10%	0.096
Sampling size	2	2
Mean of sample	87.25%	0.096
Sample standard deviation	0.21%	0.001
UCL/1.05	N/A	0.067
LCL/0.95	89.84%	N/A
level VI	86.20%	0.1

The samples tested comply with level:

VI

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Photo:(representative)

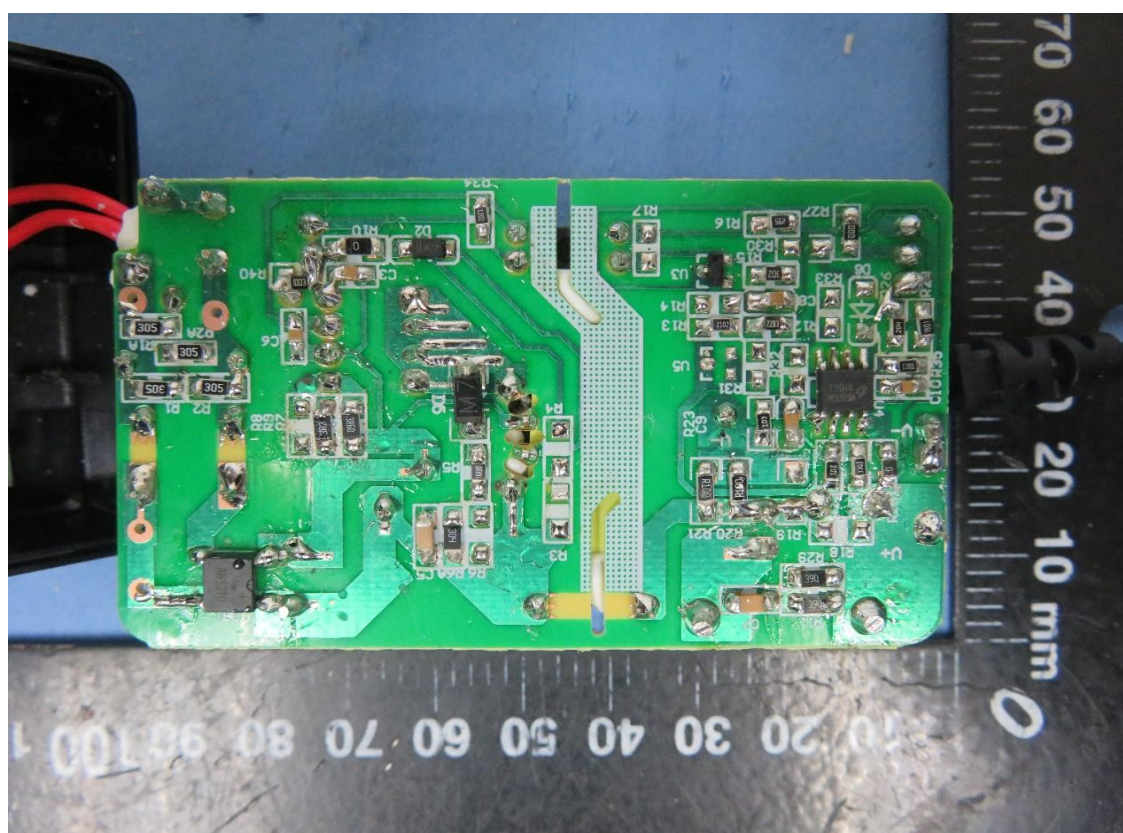


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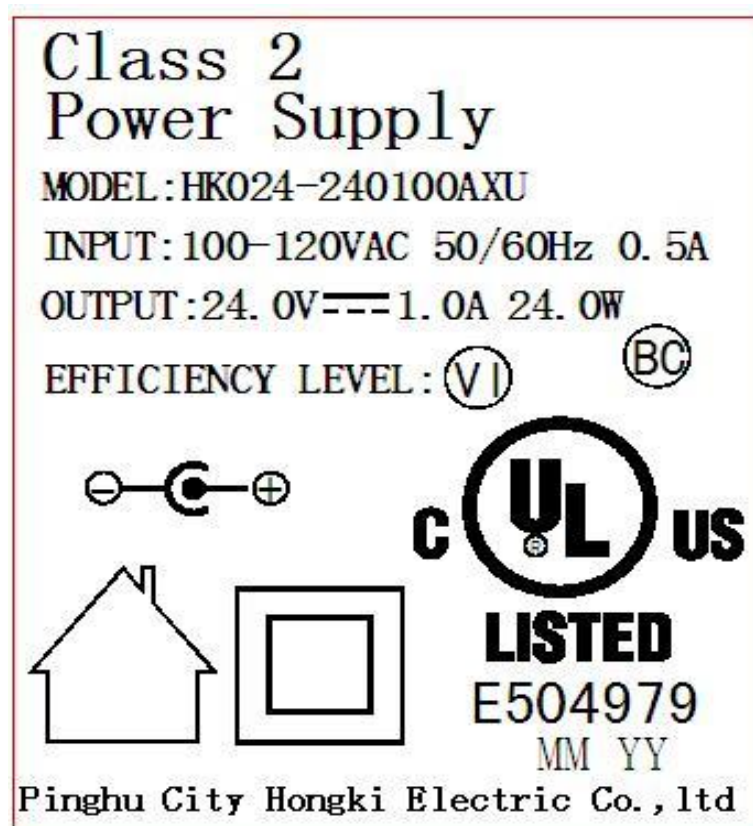


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Labels:(representative)



THE END