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|  | Lexington Product Power Consumption Laboratory Test Report | R11-114-PC1a |
| Measurement and Reporting of Product Power Consumption | | |
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Product Power Consumption Measurements on Lexmark X950de Color Laser MFD

General

The Lexmark Product Power Consumption Laboratory is the sole source of product power consumption measurement and claims for Lexmark International, Inc. The lab performs measurement on all Lexmark products as well as products designed and manufactured by Lexmark for other Customers. The lab has quality policies consistent with ISO 9001 and the Lexmark-Lexington Sites is qualified for ISO 9001.

Referenced Test Standards

The product power consumption measurements were carried out in accordance with the following test protocols and standards

1. "ENERGY STAR Program Requirements for Imaging Equipment , V1.2"
2. IEC 62301, Ed 1.0 (2005)
3. Lexmark Energy Test Process Manual, V1.5


Measurement Equipment

The following measurement equipment is used in the power consumption testing. All measurement equipment is calibrated on an annual basis.

| Equipment | Type | Accuracy |
|--------------------------|---|--|
| Universal Power Analyzer | Yokogawa WT1600 | 0.2% of Range |
| AC Power Source | Pacific Power Source Corp, Model AMX-360 | Voltage: 0.03% of Command Voltage Frequency: 0.01 Hz Load Regulation 0.25% Max THD: 0.1% , Response time: 5µs |

Environmental Conditions in Test Room During Test

- Temperature – 21.5-24.5°C
- Relative Humidity – 16-45 %
- Barometric Pressure – 97.7-99.4 kPA

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Test Information and Operating Conditions

| | |
|--------------------------------------|--|
| Product under Test | Lexmark X950de |
| Product Type | Color EP MFD |
| Operating Condition | Product was tested in the factory default condition |
| Paper Type | Paper Used in TEC testing follows Requirements in Reference [3] |
| Supply Voltage | <input checked="" type="checkbox"/> 100 V / 50 Hz <input checked="" type="checkbox"/> 115 V / 60 Hz <input checked="" type="checkbox"/> 230V / 50 Hz |
| Rates Speed | 45 ppm |
| Power Supply Type | Internal Power Supply (AC-DC) |
| Interfaces used during Test | <input checked="" type="checkbox"/> USB <input checked="" type="checkbox"/> Wired Network <input type="checkbox"/> Wireless Network |
| Accessories attached to base Product | none |
| Serial Numbers | 100V Tests: GGBFSU 720071 115V Tests: GGBFSU 720071 230V Tests: WIZHZO |
| Test IDs | 114-1 to 114-33 |
| Date(s) of Test | 26 January 2011-15 February 2011, 6-9 May 2011 |
| Test Performed by | R. Harvey |


Sleep Mode timeout is 30 minutes. Product under test is the highest power consuming model.

Measurement Results

The following measurement results are evaluated for compliance with the ENERGY STAR Imaging Equipment V1.1.

Submitted and Approved by Christopher A. Saunders
Christopher A. Saunders
ENERGY STAR Program Coordinator
Lexmark International, Inc.

The results reported here relate only to the specific items tested and to the specific configurations tested. This report shall not be reproduced, except in full, without the written approval of the Lexmark Product Power Consumption Laboratory

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Test Results – ENERGY STAR Imaging Equipment V1.1 Requirements

Table 1: ENERGY STAR TEC Test and Evaluation

| TEC Calculations - X950de | | | | |
|----------------------------------|------------------|--------|---------------|--------------------------|
| | 100V | 115V | 230V | |
| PPM | 45 | 45 | 45 | |
| Raw Pg/Day | 1012.5 | 1012.5 | 1012.5 | |
| Testing Information | | | | |
| Job/Day | 32 | 32 | 32 | Jobs |
| Pages/Job | 31 | 31 | 31 | Pages |
| Pages/Day | 992 | 992 | 992 | Pages |
| Energy Calculations | | | | |
| Job 1 Energy | 42.09 | 41.52 | 41.74 | w-h |
| Job 2 Energy | 34.83 | 36.12 | 36.07 | w-h |
| Job 3 Energy | 34.24 | 34.52 | 34.44 | w-h |
| Job 4 Energy | 33.66 | 33.99 | 33.82 | w-h |
| Job 2-4 Average Energy | 34.24 | 34.88 | 34.78 | w-h |
| Sleep Power | 16.26 | 16.02 | 16.14 | w |
| Final Ready Energy | 28.10 | 28.30 | 28.33 | w-h |
| Final Ready Time | 0.32 | 0.32 | 0.32 | hr |
| Results | | | | |
| Average Job Energy | 34.2 | 34.9 | 34.8 | w-h |
| Daily Job Energy | 1111.5 | 1129.3 | 1126.8 | w-h |
| Daily Sleep Energy | 249.8 | 246.1 | 247.9 | w-h |
| WorkDay Energy | 1417.4 | 1432.0 | 1431.4 | w-h/workday |
| TEC Value (wh) | 7867.7 | 7929.0 | 7931.5 | w-h/week |
| TEC Value (kwh) | 7.93 | | | Meets Requirement |
| TEC Limit | 12.75 | | | |
| Duplex Capability | Standard Feature | | | |
| Duplex Requirement | Standard Feature | | | |



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Table 2: ENERGY STAR TEC Test in Eco Energy Mode

| TEC Calculations - X950de - Eco Mode Energy | | | | |
|--|------------------|--------|--------|--------------------------|
| | 100V | 115V | 230V | |
| PPM | 45 | 45 | 45 | |
| Raw Pg/Day | 1012.5 | 1012.5 | 1012.5 | |
| Testing Information | | | | |
| Job/Day | 32 | 32 | 32 | Jobs |
| Pages/Job | 31 | 31 | 31 | Pages |
| Pages/Day | 992 | 992 | 992 | Pages |
| Energy Calculations | | | | |
| Job 1 Energy | 23.88 | 23.39 | 22.84 | w-h |
| Job 2 Energy | 23.27 | 22.18 | 20.89 | w-h |
| Job 3 Energy | 22.00 | 20.99 | 21.03 | w-h |
| Job 4 Energy | 21.11 | 21.32 | 21.35 | w-h |
| Job 2-4 Average Energy | 22.13 | 21.50 | 21.09 | w-h |
| Sleep Power | 18.56 | 16.45 | 15.97 | w |
| Final Ready Energy | 0.00 | 0.00 | 0.00 | w-h |
| Final Ready Time | 0.00 | 0.00 | 0.00 | hr |
| Results | | | | |
| Average Job Energy | 22.1 | 21.5 | 21.1 | w-h |
| Daily Job Energy | 711.6 | 691.7 | 678.4 | w-h |
| Daily Sleep Energy | 297.0 | 263.2 | 255.5 | w-h |
| WorkDay Energy | 1008.5 | 954.9 | 933.9 | w-h/workday |
| TEC Value (wh) | 5933.5 | 5564.0 | 5436.1 | w-h/week |
| TEC Value (kwh) | 5.93 | | | Meets Requirement |
| TEC Limit | 12.75 | | | |
| Duplex Capability | Standard Feature | | | |
| Duplex Requirement | Standard Feature | | | Meets Requirement |

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Test Results – Additional Mode Power Consumption Measurements

Table 3 contains power measurements by Product Mode

| Mode | Supply Voltage | | | Claim |
|---------------------|----------------|---------------|---------------|--------|
| | 100 V / 50 Hz | 115 V / 60 Hz | 230 V / 50 Hz | |
| Plugged in Off Mode | 0.06 W | 0.08 W | 0.35 W | 0.35 W |
| Simplex Printing | 671.7 W | 672.2 W | 666.5 W | 675 W |
| Duplex Printing | 642.1 W | 637.6 W | 644.5 W | 650 W |
| Copy | 809.9 W | 705.1 W | 739.1 W | 810 W |
| ADF Scan | 124.8 W | 114.2 W | 113.1 W | 125 W |
| Ready Mode | 103.9 W | 106.7 W | 109.3 W | 110 W |
| Sleep Mode | 16.26 W | 16.02 W | 16.14 W | 17 W |
| Hibernate Mode | 0.34 W | 0.38 W | 0.92 W | 0.95 W |