# TEST REPORT

| | |
|---|---|
| **Report No.:** | DGH240920016D-01 |
| **Product:** | Leopard Reel 65W |
| **Model No.:** | ADL035 |
| **Applicant:** | U2O GLOBAL CO.,LTD. |
| **Address:** | Huanzhu Road No.385, 4 Floor, Jimei District, Xiamen, China. |
| **Issued by:** | Dongguan NTEK Testing Service Co., Ltd. |
| **Lab Location:** | Room101/401, Building 3, No.1, Keji 8th Road, Songshan Lake High-Tech Industrial Development Zone, Dongguan, Guangdong, China |

**Tel:** +86-769-23301618 **Fax:** +86-769-23301618

This test report consists of **22** pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by NTEK. The test results in the report only apply to the tested sample. The test report shall be invalid without all the signatures of testing engineers, reviewer and approver. Any objections must be raised to NTEK within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit

# TEST REPORT

**Energy Performance Requirements**

| | |
|---|---|
| **Report Reference No** | DGH240920016D-01 |
| Tested by (+ signature) | Chris Chen |
| Approved by (+ signature) | Jeff Yang |
| Date of issue | November 22, 2024 |

**Testing laboratory**

| | |
|---|---|
| Name | Dongguan NTEK Testing Service Co., Ltd. |
| Address | Room101/401, Building 3, No.1, Keji 8th Road, Songshan Lake High-Tech Industrial Development Zone, Dongguan, Guangdong, China |
| Testing location | Same as above |

**Applicant**

| | |
|---|---|
| Name | U2O GLOBAL CO.,LTD. |
| Address | Huanzhu Road No.385, 4 Floor,Jimei District, Xiamen, China. |

**Test specification**

| | |
|---|---|
| Test procedure | DEPARTMENT OE ENERGY 10 CFR Part 429<br>429.11 General sampling requirements for selecting units to be tested<br>429.12 General requirements applicable to certification reports<br>429.37 Class A external power supplies<br>DEPARTMENT OF ENERGY 10 CFR Part 430<br>Appendix Z to Subpart B of Part 430— Uniform Test Method for Measuring the Energy Consumption of External Power Supplies |
| Test standard | section 430.23(bb) (Appendix Z to Subpart B of part 430) |

**Test item**

| | |
|---|---|
| Description | Leopard Reel 65W |
| Trademark | iWALK |
| Model and/or type reference | ADL035 |
| Rating(s) | Input: 100-240V~ 50/60Hz 1.5A Max<br>USB-C1/C2:5.0V⎓3.0A / 9.0V⎓3.0A / 12.0V⎓3.0A, 15.0V⎓3.0A / 20.0V⎓3.25A<br>PPS-C1:3.3-11.0V⎓5.0A Max, 3.3-21.0V⎓3.0A Max<br>PPS-C2:3.3-11.0V⎓3.0A Max, 3.3-21.0V⎓3.0A Max<br>Output Power: 65.0W Max |
| Manufacturer | U2O GLOBAL CO.,LTD. |
| Address | Huanzhu Road No.385, 4 Floor,Jimei District, Xiamen, China. |

**Test conditions:**

Ambient Temperature: 20±5°C
Relative Humidity, RH: 10-80% (For lab references)
Supply Voltage Tolerance: ±1%
Airspeed: ≤0.5 m/s
Supply Frequency Tolerance: ±1%

**Performance requirements:**

The UUT shall be tested at each load condition specified in Table 1, testing consecutively from Load Condition 1 to 5.

The UUT shall be operated at 100% of nameplate current output (Load Condition 1) for at least 30 minutes immediately prior to conducting efficiency measurements.

**Table 1 – Load Conditions**

| Load Conditions for UUT | Percentage of Nameplate Output Current |
|---|---|
| Load condition 1 | 100±2% |
| Load condition 2 | 75±2% |
| Load condition 3 | 50±2% |
| Load condition 4 | 25±2% |
| Load condition 5 | 0±2% |

Note(s):
1. The 2% allowance is of nameplate output current, not of the calculated current value.
2. For example, a UUT at Load Condition 3 may be tested in a range from 48% (min) to 52% (max) of rated output current.

**Test Summary:**

The international efficiency marking protocol for external power supplies (EPSs) developed by the U.S. Environmental Protection Agency and now maintained by the U.S. Department of Energy (DOE). This version, updated as of September 2013, replaces an earlier document released in October 2008.

| | | | | |
|---|---|---|---|---|
| VI | Single-Voltage | | | |
| | 0 to ≤ 49 W | AC-DC: ≤ 0.100<br>AC-AC: ≤ 0.210 | 0 to ≤ 1 W | Basic Voltage: ≥ 0.5 × $P_{no}$ + 0.16<br>Low Voltage: ≥ 0.517 × $P_{no}$ + 0.087 |
| | | | > 1 to ≤ 49 W | Basic Voltage: ≥ 0.071 × ln($P_{no}$) − 0.0014 × $P_{no}$ + 0.67<br>Low Voltage: ≥ 0.0834 × ln($P_{no}$) − 0.0014 × $P_{no}$ + 0.609 |
| | > 49 to ≤ 250 W | ≤ 0.210 | > 49 to ≤ 250 W | Basic Voltage: ≥ 0.880<br>Low Voltage: ≥ 0.870 |
| | > 250 W | ≤ 0.500 | > 250 W | ≥ 0.875 |
| | Multiple-Voltage | | | |
| | Any | ≤ 0.300 | 0 to ≤ 1 W | ≥ 0.497 × $P_{no}$ + 0.067 |
| | | | > 1 to ≤ 49 W | ≥ 0.075 × ln($P_{no}$) + 0.561 |
| | | | > 49 W | ≥ 0.860 |

**Product Information:**

| | |
|---|---|
| Manufacturer Name: | U2O GLOBAL CO.,LTD. |
| Country of manufacturer: | China |
| Model: | ADL035 |
| Product Powered (if known): | Unknown |
| Integral Input Power Switch | Not present |
| Input Cord Length (cm) | Not present |
| Output Cord Length (cm) | Not present |

| **Nameplate Specifications** | **Input (AC)** | **Output (DC)** |
|---|---|---|
| **Voltage (V)** | 100-240 | USB-C1/C2:5.0V⎓3.0A / 9.0V⎓3.0A / 12.0V⎓3.0A, 15.0V⎓3.0A / 20.0V⎓3.25A |
| **Current (A)** | 1.5 | PPS-C1:3.3-11.0V⎓5.0A Max, 3.3-21.0V⎓3.0A Max<br>PPS-C2:3.3-11.0V⎓3.0A Max, 3.3-21.0V⎓3.0A Max |
| **Power (W)** | Not Stated | Max.65.0W |
| **Frequency (Hz)** | 50/60 | DC |

**Calculated Energy Performance Requirement:**

| Model No. | Nameplate output | Active Mode | No-load Mode |
|---|---|---|---|
| ADL035 | 30.0 W | 81.61% | 0.3W |
| | 65.0 W | 86.00% | 0.3W |

**Note:**

**- The report is a supplement based on the previous NTEK test report No.: DGH240920016D update the applicant, manufacturer, product name, model name and label, without test.**

**Active/No-load Mode Power Consumption Test: Results for sample 1 @ 115Vac 60Hz for USB-C1 5V3A + USB-C2 5V3A**

| | Load condition | | | | | |
|---|---|---|---|---|---|---|
| Percentage of nameplate output current | 0% no load | 25% | 50% | 75% | 100% | Remark |
| Rms output current (mA) | 0 | 750 | 1500 | 2250 | 3000 | -- |
| Rms output voltage (V) | 5.125 | 5.120 | 5.141 | 5.159 | 5.179 | Output Power (Pout) |
| Active output power (W) | 0 | 3.840 | 7.712 | 11.608 | 15.537 | -- |
| Rms output current (mA) | 0 | 750 | 1500 | 2250 | 3000 | -- |
| Rms output voltage (V) | 5.013 | 4.973 | 4.862 | 4.753 | 4.644 | Output Power (Pout) |
| Active output power (W) | 0 | 3.730 | 7.293 | 10.694 | 13.932 | -- |
| Rms input voltage (V) | 115 | 115 | 115 | 115 | 115 | -- |
| Input frequency (Hz) | 60 | 60 | 60 | 60 | 60 | -- |
| Rms input power (W) | 0.131 | 9.434 | 18.227 | 26.943 | 36.237 | Input Power (Pin) |
| Total harmonic distortion of voltage (THD%) | 0.34% | 0.82% | 1.18% | 1.51% | 1.83% | -- |
| True power factor | 0.095 | 0.503 | 0.552 | 0.574 | 0.590 | -- |
| Power consumed (W) | 0.131 | 1.864 | 3.223 | 4.641 | 6.768 | <0.3W at no load* |
| Efficiency (%) | -- | 80.24% | 82.32% | 82.77% | 81.32% | (Pout/Pin)*100% |
| Average efficiency (%) | -- | 81.66% | | | | >81.61% at active mode* |
| Note: -- | | | | | | |

**Active/No-load Mode Power Consumption Test: Results for sample 1 @ 230Vac 50Hz for USB-C1 5V3A + USB-C2 5V3A**

| | Load condition | | | | | |
|---|---|---|---|---|---|---|
| Percentage of nameplate output current | 0% no load | 25% | 50% | 75% | 100% | Remark |
| Rms output current (mA) | 0 | 750 | 1500 | 2250 | 3000 | -- |
| Rms output voltage (V) | 5.131 | 5.12 | 5.141 | 5.16 | 5.179 | Output Power (Pout) |
| Active output power (W) | 0 | 3.840 | 7.712 | 11.610 | 15.537 | -- |
| Rms output current (mA) | 0 | 750 | 1500 | 2250 | 3000 | -- |
| Rms output voltage (V) | 5.014 | 4.971 | 4.858 | 4.75 | 4.678 | Output Power (Pout) |
| Active output power (W) | 0 | 3.728 | 7.287 | 10.688 | 14.034 | -- |
| Rms input voltage (V) | 230 | 230 | 230 | 230 | 230 | -- |
| Input frequency (Hz) | 50 | 50 | 50 | 50 | 50 | -- |
| Rms input power (W) | 0.157 | 9.469 | 18.237 | 26.952 | 36.256 | Input Power (Pin) |
| Total harmonic distortion of voltage (THD%) | 0.51% | 0.52% | 0.54% | 0.62% | 0.71% | -- |
| True power factor | 0.040 | 0.408 | 0.453 | 0.471 | 0.497 | -- |
| Power consumed (W) | 0.157 | 1.901 | 3.239 | 4.655 | 6.685 | <0.3W at no load* |
| Efficiency (%) | -- | 79.93% | 82.24% | 82.73% | 81.56% | (Pout/Pin)*100% |
| Average efficiency (%) | -- | 81.62% | | | | >81.61% at active mode* |
| Note: -- | | | | | | |

**Active/No-load Mode Power Consumption Test: Results for sample 2 @ 115Vac 60Hz for USB-C1 5V3A + USB-C2 5V3A**

| | Load condition | | | | | |
|---|---|---|---|---|---|---|
| Percentage of nameplate output current | 0% no load | 25% | 50% | 75% | 100% | Remark |
| Rms output current (mA) | 0 | 750 | 1500 | 2250 | 3000 | -- |
| Rms output voltage (V) | 5.124 | 5.121 | 5.140 | 5.161 | 5.176 | Output Power (Pout) |
| Active output power (W) | 0 | 3.841 | 7.710 | 11.612 | 15.528 | -- |
| Rms output current (mA) | 0 | 750 | 1500 | 2250 | 3000 | -- |
| Rms output voltage (V) | 5.013 | 4.971 | 4.861 | 4.754 | 4.653 | Output Power (Pout) |
| Active output power (W) | 0 | 3.728 | 7.292 | 10.697 | 13.959 | -- |
| Rms input voltage (V) | 115 | 115 | 115 | 115 | 115 | -- |
| Input frequency (Hz) | 60 | 60 | 60 | 60 | 60 | -- |
| Rms input power (W) | 0.133 | 9.457 | 18.219 | 26.923 | 36.271 | Input Power (Pin) |
| Total harmonic distortion of voltage (THD%) | 0.35% | 0.83% | 1.17% | 1.52% | 1.83% | -- |
| True power factor | 0.083 | 0.505 | 0.552 | 0.574 | 0.590 | -- |
| Power consumed (W) | 0.133 | 1.888 | 3.218 | 4.614 | 6.784 | <0.3W at no load* |
| Efficiency (%) | -- | 80.04% | 82.34% | 82.86% | 81.30% | (Pout/Pin)*100% |
| Average efficiency (%) | -- | 81.64% | | | | >81.61% at active mode* |
| Note: -- | | | | | | |

**Active/No-load Mode Power Consumption Test: Results for sample 2 @ 230Vac 50Hz for USB-C1 5V3A + USB-C2 5V3A**

| | Load condition | | | | | |
|---|---|---|---|---|---|---|
| Percentage of nameplate output current | 0% no load | 25% | 50% | 75% | 100% | Remark |
| Rms output current (mA) | 0 | 750 | 1500 | 2250 | 3000 | -- |
| Rms output voltage (V) | 5.125 | 5.119 | 5.139 | 5.168 | 5.18 | Output Power (Pout) |
| Active output power (W) | 0 | 3.839 | 7.709 | 11.628 | 15.540 | -- |
| Rms output current (mA) | 0 | 750 | 1500 | 2250 | 3000 | -- |
| Rms output voltage (V) | 5.014 | 4.970 | 4.859 | 4.749 | 4.645 | Output Power (Pout) |
| Active output power (W) | 0 | 3.728 | 7.289 | 10.685 | 13.935 | -- |
| Rms input voltage (V) | 230 | 230 | 230 | 230 | 230 | -- |
| Input frequency (Hz) | 50 | 50 | 50 | 50 | 50 | -- |
| Rms input power (W) | 0.159 | 9.457 | 18.221 | 26.946 | 36.242 | Input Power (Pin) |
| Total harmonic distortion of voltage (THD%) | 0.55% | 0.53% | 0.52% | 0.61% | 0.71% | -- |
| True power factor | 0.038 | 0.407 | 0.455 | 0.478 | 0.497 | -- |
| Power consumed (W) | 0.159 | 1.890 | 3.224 | 4.633 | 6.767 | <0.3W at no load* |
| Efficiency (%) | -- | 80.01% | 82.31% | 82.81% | 81.33% | (Pout/Pin)*100% |
| Average efficiency (%) | -- | 81.62% | | | | >81.61% at active mode* |
| Note: -- | | | | | | |

**Active/No-load Mode Power Consumption Test: Results for sample 3 @ 115Vac 60Hz for USB-C1 5V3A + USB-C2 5V3A**

| | Load condition | | | | | |
|---|---|---|---|---|---|---|
| Percentage of nameplate output current | 0% no load | 25% | 50% | 75% | 100% | Remark |
| Rms output current (mA) | 0 | 750 | 1500 | 2250 | 3000 | -- |
| Rms output voltage (V) | 5.127 | 5.121 | 5.14 | 5.16 | 5.178 | Output Power (Pout) |
| Active output power (W) | 0 | 3.841 | 7.710 | 11.610 | 15.534 | -- |
| Rms output current (mA) | 0 | 750 | 1500 | 2250 | 3000 | -- |
| Rms output voltage (V) | 5.018 | 4.973 | 4.864 | 4.752 | 4.649 | Output Power (Pout) |
| Active output power (W) | 0 | 3.730 | 7.296 | 10.692 | 13.947 | -- |
| Rms input voltage (V) | 115 | 115 | 115 | 115 | 115 | -- |
| Input frequency (Hz) | 60 | 60 | 60 | 60 | 60 | -- |
| Rms input power (W) | 0.132 | 9.444 | 18.227 | 26.937 | 36.271 | Input Power (Pin) |
| Total harmonic distortion of voltage (THD%) | 0.36% | 0.80% | 1.19% | 1.53% | 1.83% | -- |
| True power factor | 0.072 | 0.504 | 0.552 | 0.574 | 0.590 | -- |
| Power consumed (W) | 0.132 | 1.874 | 3.221 | 4.635 | 6.790 | <0.3W at no load* |
| Efficiency (%) | -- | 80.16% | 82.33% | 82.79% | 81.28% | (Pout/Pin)*100% |
| Average efficiency (%) | -- | 81.64% | | | | >81.61% at active mode* |
| Note: -- | | | | | | |

**Active/No-load Mode Power Consumption Test: Results for sample 3 @ 230Vac 50Hz for USB-C1 5V3A + USB-C2 5V3A**

| | Load condition | | | | | |
|---|---|---|---|---|---|---|
| Percentage of nameplate output current | 0% no load | 25% | 50% | 75% | 100% | Remark |
| Rms output current (mA) | 0 | 750 | 1500 | 2250 | 3000 | -- |
| Rms output voltage (V) | 5.128 | 5.119 | 5.14 | 5.156 | 5.176 | Output Power (Pout) |
| Active output power (W) | 0 | 3.839 | 7.710 | 11.601 | 15.528 | -- |
| Rms output current (mA) | 0 | 750 | 1500 | 2250 | 3000 | -- |
| Rms output voltage (V) | 5.016 | 4.991 | 4.858 | 4.747 | 4.649 | Output Power (Pout) |
| Active output power (W) | 0 | 3.743 | 7.287 | 10.681 | 13.947 | -- |
| Rms input voltage (V) | 230 | 230 | 230 | 230 | 230 | -- |
| Input frequency (Hz) | 50 | 50 | 50 | 50 | 50 | -- |
| Rms input power (W) | 0.158 | 9.454 | 18.223 | 26.944 | 36.262 | Input Power (Pin) |
| Total harmonic distortion of voltage (THD%) | 0.56% | 0.53% | 0.54% | 0.51% | 0.71% | -- |
| True power factor | 0.038 | 0.407 | 0.453 | 0.476 | 0.491 | -- |
| Power consumed (W) | 0.158 | 1.872 | 3.226 | 4.662 | 6.787 | <0.3W at no load* |
| Efficiency (%) | -- | 80.20% | 82.30% | 82.70% | 81.28% | (Pout/Pin)*100% |
| Average efficiency (%) | -- | 81.62% | | | | >81.61% at active mode* |
| Note: -- | | | | | | |

**Active/No-load Mode Power Consumption Test: Results for sample 1 @ 115Vac 60Hz for USB-C1 20V2.25A + USB-C2 12V1.67A**

| | Load condition | | | | | |
|---|---|---|---|---|---|---|
| Percentage of nameplate output current | 0% no load | 25% | 50% | 75% | 100% | Remark |
| Rms output current (mA) | 0 | 563 | 1125 | 1688 | 2250 | -- |
| Rms output voltage (V) | 20.105 | 20.099 | 20.114 | 20.059 | 19.981 | Output Power (Pout) |
| Active output power (W) | 0 | 11.316 | 22.628 | 33.860 | 44.957 | -- |
| Rms output current (mA) | 0 | 418 | 835 | 1253 | 1670 | -- |
| Rms output voltage (V) | 12.006 | 12.002 | 11.929 | 11.862 | 11.792 | Output Power (Pout) |
| Active output power (W) | 0 | 5.017 | 9.961 | 14.863 | 19.693 | -- |
| Rms input voltage (V) | 115 | 115 | 115 | 115 | 115 | -- |
| Input frequency (Hz) | 60 | 60 | 60 | 60 | 60 | -- |
| Rms input power (W) | 0.137 | 18.813 | 36.597 | 54.551 | 72.540 | Input Power (Pin) |
| Total harmonic distortion of voltage (THD%) | 0.25% | 0.78% | 1.20% | 1.52% | 1.83% | -- |
| True power factor | 0.079 | 0.553 | 0.589 | 0.609 | 0.618 | -- |
| Power consumed (W) | 0.137 | 2.480 | 4.008 | 5.828 | 7.890 | <0.3W at no load* |
| Efficiency (%) | -- | 86.82% | 89.05% | 89.32% | 89.12% | (Pout/Pin)*100% |
| Average efficiency (%) | -- | 88.58% | | | | >86.00% at active mode* |
| Note: -- | | | | | | |

**Active/No-load Mode Power Consumption Test: Results for sample 1 @ 230Vac 50Hz for USB-C1 20V2.25A + USB-C2 12V1.67A**

| | Load condition | | | | | |
|---|---|---|---|---|---|---|
| Percentage of nameplate output current | 0% no load | 25% | 50% | 75% | 100% | Remark |
| Rms output current (mA) | 0 | 563 | 1125 | 1688 | 2250 | -- |
| Rms output voltage (V) | 20.107 | 20.096 | 20.111 | 20.051 | 19.995 | Output Power (Pout) |
| Active output power (W) | 0 | 11.314 | 22.625 | 33.846 | 44.989 | -- |
| Rms output current (mA) | 0 | 418 | 835 | 1253 | 1670 | -- |
| Rms output voltage (V) | 12.004 | 11.991 | 11.917 | 11.852 | 11.788 | Output Power (Pout) |
| Active output power (W) | 0 | 5.012 | 9.951 | 14.851 | 19.686 | -- |
| Rms input voltage (V) | 230 | 230 | 230 | 230 | 230 | -- |
| Input frequency (Hz) | 50 | 50 | 50 | 50 | 50 | -- |
| Rms input power (W) | 0.156 | 19.132 | 36.841 | 54.541 | 72.151 | Input Power (Pin) |
| Total harmonic distortion of voltage (THD%) | 0.52% | 0.56% | 0.71% | 0.91% | 1.13% | -- |
| True power factor | 0.040 | 0.450 | 0.494 | 0.518 | 0.532 | -- |
| Power consumed (W) | 0.156 | 2.806 | 4.265 | 5.844 | 7.476 | <0.3W at no load* |
| Efficiency (%) | -- | 85.33% | 88.42% | 89.28% | 89.64% | (Pout/Pin)*100% |
| Average efficiency (%) | -- | 88.17% | | | | >86.00% at active mode* |
| Note: -- | | | | | | |

**Active/No-load Mode Power Consumption Test: Results for sample 2 @ 115Vac 60Hz for USB-C1 20V2.25A + USB-C2 12V1.67A**

| | Load condition | | | | | |
|---|---|---|---|---|---|---|
| Percentage of nameplate output current | 0% no load | 25% | 50% | 75% | 100% | Remark |
| Rms output current (mA) | 0 | 563 | 1125 | 1688 | 2250 | -- |
| Rms output voltage (V) | 20.103 | 20.099 | 20.118 | 20.058 | 19.986 | Output Power (Pout) |
| Active output power (W) | 0 | 11.316 | 22.633 | 33.858 | 44.969 | -- |
| Rms output current (mA) | 0 | 418 | 835 | 1253 | 1670 | -- |
| Rms output voltage (V) | 12.075 | 12.001 | 11.928 | 11.861 | 11.797 | Output Power (Pout) |
| Active output power (W) | 0 | 5.016 | 9.960 | 14.862 | 19.701 | -- |
| Rms input voltage (V) | 115 | 115 | 115 | 115 | 115 | -- |
| Input frequency (Hz) | 60 | 60 | 60 | 60 | 60 | -- |
| Rms input power (W) | 0.132 | 18.813 | 36.621 | 54.567 | 72.551 | Input Power (Pin) |
| Total harmonic distortion of voltage (THD%) | 0.24% | 0.83% | 1.25% | 1.61% | 1.88% | -- |
| True power factor | 0.096 | 0.553 | 0.591 | 0.611 | 0.618 | -- |
| Power consumed (W) | 0.132 | 2.481 | 4.028 | 5.847 | 7.882 | <0.3W at no load* |
| Efficiency (%) | -- | 86.81% | 89.00% | 89.28% | 89.14% | (Pout/Pin)*100% |
| Average efficiency (%) | -- | 88.56% | | | | >86.00% at active mode* |
| Note: -- | | | | | | |

**Active/No-load Mode Power Consumption Test: Results for sample 2 @ 230Vac 50Hz for USB-C1 20V2.25A + USB-C2 12V1.67A**

| | Load condition | | | | | |
|---|---|---|---|---|---|---|
| Percentage of nameplate output current | 0% no load | 25% | 50% | 75% | 100% | Remark |
| Rms output current (mA) | 0 | 563 | 1125 | 1688 | 2250 | -- |
| Rms output voltage (V) | 20.107 | 20.095 | 20.112 | 20.051 | 19.994 | Output Power (Pout) |
| Active output power (W) | 0 | 11.313 | 22.626 | 33.846 | 44.987 | -- |
| Rms output current (mA) | 0 | 418 | 835 | 1253 | 1670 | -- |
| Rms output voltage (V) | 12.004 | 11.992 | 11.916 | 11.851 | 11.784 | Output Power (Pout) |
| Active output power (W) | 0 | 5.013 | 9.950 | 14.849 | 19.679 | -- |
| Rms input voltage (V) | 230 | 230 | 230 | 230 | 230 | -- |
| Input frequency (Hz) | 50 | 50 | 50 | 50 | 50 | -- |
| Rms input power (W) | 0.158 | 19.111 | 36.851 | 54.541 | 72.197 | Input Power (Pin) |
| Total harmonic distortion of voltage (THD%) | 0.53% | 0.55% | 0.73% | 0.96% | 1.17% | -- |
| True power factor | 0.040 | 0.449 | 0.495 | 0.517 | 0.531 | -- |
| Power consumed (W) | 0.158 | 2.785 | 4.275 | 5.846 | 7.531 | <0.3W at no load* |
| Efficiency (%) | -- | 85.43% | 88.40% | 89.28% | 89.57% | (Pout/Pin)*100% |
| Average efficiency (%) | -- | 88.17% | | | | >86.00% at active mode* |
| Note: -- | | | | | | |

Reference No.: DGH240920016D-01

**Active/No-load Mode Power Consumption Test: Results for sample 3 @ 115Vac 60Hz for USB-C1 20V2.25A + USB-C2 12V1.67A**

| | Load condition | | | | | |
|---|---|---|---|---|---|---|
| Percentage of nameplate output current | 0% no load | 25% | 50% | 75% | 100% | Remark |
| Rms output current (mA) | 0 | 563 | 1125 | 1688 | 2250 | -- |
| Rms output voltage (V) | 20.105 | 20.099 | 20.114 | 20.059 | 19.981 | Output Power (Pout) |
| Active output power (W) | 0 | 11.316 | 22.628 | 33.860 | 44.957 | -- |
| Rms output current (mA) | 0 | 418 | 835 | 1253 | 1670 | -- |
| Rms output voltage (V) | 12.006 | 12.002 | 11.929 | 11.862 | 11.792 | Output Power (Pout) |
| Active output power (W) | 0 | 5.017 | 9.961 | 14.863 | 19.693 | -- |
| Rms input voltage (V) | 115 | 115 | 115 | 115 | 115 | -- |
| Input frequency (Hz) | 60 | 60 | 60 | 60 | 60 | -- |
| Rms input power (W) | 0.137 | 18.813 | 36.597 | 54.551 | 72.540 | Input Power (Pin) |
| Total harmonic distortion of voltage (THD%) | 0.25% | 0.78% | 1.20% | 1.52% | 1.83% | -- |
| True power factor | 0.079 | 0.553 | 0.589 | 0.609 | 0.618 | -- |
| Power consumed (W) | 0.137 | 2.480 | 4.008 | 5.828 | 7.890 | <0.3W at no load* |
| Efficiency (%) | -- | 86.82% | 89.05% | 89.32% | 89.12% | (Pout/Pin)*100% |
| Average efficiency (%) | -- | 88.58% | | | | >86.00% at active mode* |
| Note: -- | | | | | | |

**Active/No-load Mode Power Consumption Test: Results for sample 3 @ 230Vac 50Hz for USB-C1 20V2.25A + USB-C2 12V1.67A**

| | Load condition | | | | | |
|---|---|---|---|---|---|---|
| Percentage of nameplate output current | 0% no load | 25% | 50% | 75% | 100% | Remark |
| Rms output current (mA) | 0 | 563 | 1125 | 1688 | 2250 | -- |
| Rms output voltage (V) | 20.107 | 20.095 | 20.112 | 20.050 | 19.996 | Output Power (Pout) |
| Active output power (W) | 0 | 11.313 | 22.626 | 33.844 | 44.991 | -- |
| Rms output current (mA) | 0 | 418 | 835 | 1253 | 1670 | -- |
| Rms output voltage (V) | 12.078 | 11.993 | 11.918 | 11.852 | 11.788 | Output Power (Pout) |
| Active output power (W) | 0 | 5.013 | 9.952 | 14.851 | 19.686 | -- |
| Rms input voltage (V) | 230 | 230 | 230 | 230 | 230 | -- |
| Input frequency (Hz) | 50 | 50 | 50 | 50 | 50 | -- |
| Rms input power (W) | 0.151 | 19.117 | 36.847 | 54.471 | 72.217 | Input Power (Pin) |
| Total harmonic distortion of voltage (THD%) | 0.56% | 0.58% | 0.72% | 0.91% | 1.14% | -- |
| True power factor | 0.041 | 0.449 | 0.496 | 0.517 | 0.533 | -- |
| Power consumed (W) | 0.151 | 2.790 | 4.269 | 5.776 | 7.540 | <0.3W at no load* |
| Efficiency (%) | -- | 85.40% | 88.41% | 89.40% | 89.56% | (Pout/Pin)*100% |
| Average efficiency (%) | -- | 88.19% | | | | >86.00% at active mode* |
| Note: -- | | | | | | |

**Explanation of DOE sampling plan for external power supplies**

**For USB-C1 5V3A + USB-C2 5V3A**

| **Test sample (115V, 60Hz)** | **Measured Active Mode Efficiency (%)** | **Measured No-Load Mode Power (W)** |
|---|---|---|
| 1# | 81.66% | 0.131 |
| 2# | 81.64% | 0.133 |
| 3# | 81.64% | 0.132 |
| The reported no load power consumption on 97.5% confidence level is the higher of:<br>1. UCL/1.05=(X + t * s/ √n)/1.05=**0.1281 W**, or<br>2. The mean value of measured No-Load Mode Power=**0.1320 W** | | |
| The reported Active Mode Efficiency on 97.5% confidence level is the lower of:<br>1.LCL/0.95=(X- t * s/√n)/0.95=**85.91%**, or<br>2.The mean value of measured Active Mode Efficiency=**81.65%** | | |
| Summary:<br>The reported No-Load Power is 0.1320W lower than limit of 0.3W.<br>The reported Active Mode Efficiency is 81.65%, greater than limit of 81.61%. | | |

**For USB-C1 20V2.25A + USB-C2 12V1.67A**

| **Test sample (115V, 60Hz)** | **Measured Active Mode Efficiency (%)** | **Measured No-Load Mode Power (W)** |
|---|---|---|
| 1# | 88.58% | 0.137 |
| 2# | 88.56% | 0.132 |
| 3# | 88.58% | 0.137 |
| The reported no load power consumption on 97.5% confidence level is the higher of:<br>1. UCL/1.05=(X + t * s/ √n)/1.05=**0.1357 W**, or<br>2. The mean value of measured No-Load Mode Power=**0.1353 W** | | |
| The reported Active Mode Efficiency on 97.5% confidence level is the lower of:<br>1.LCL/0.95=(X- t * s/√n)/0.95=**93.20%**, or<br>2.The mean value of measured Active Mode Efficiency=**88.57%** | | |
| Summary:<br>The reported No-Load Power is 0.1357W lower than limit of 0.3W.<br>The reported Active Mode Efficiency is 88.57%, greater than limit of 86.00%. | | |

**Photo and Label of Product**

Photo 1 Model: ADL035

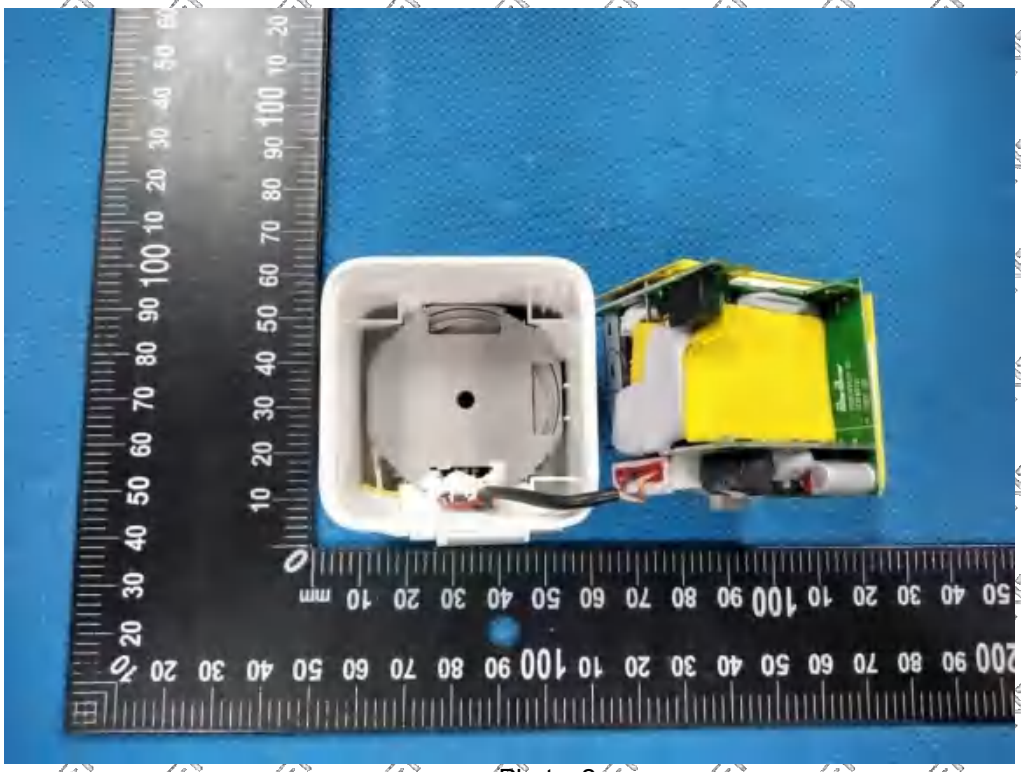

Photo 2

**Photo and Label of Product**

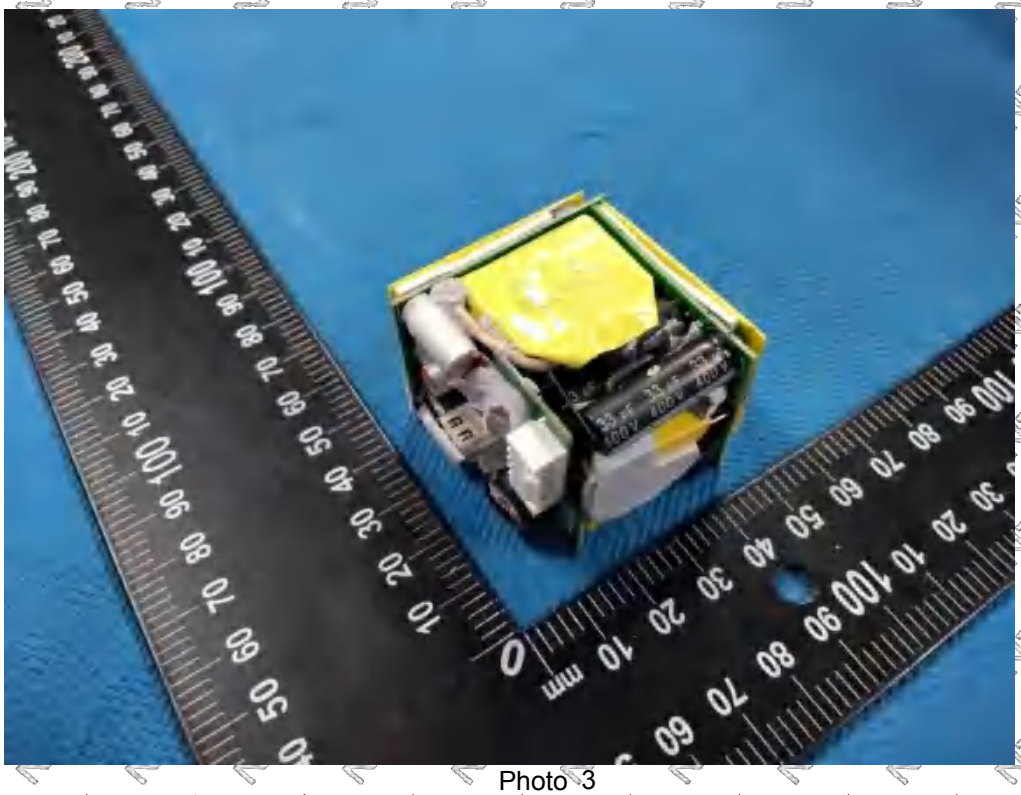

Photo 3

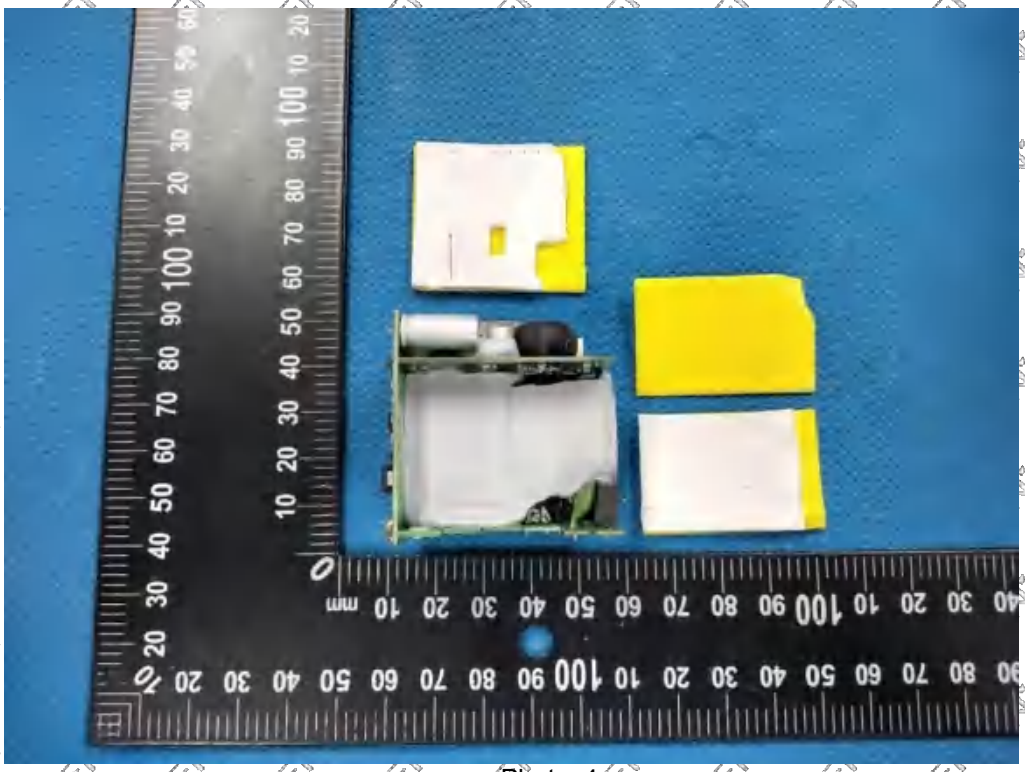

Photo 4

**Photo and Label of Product**

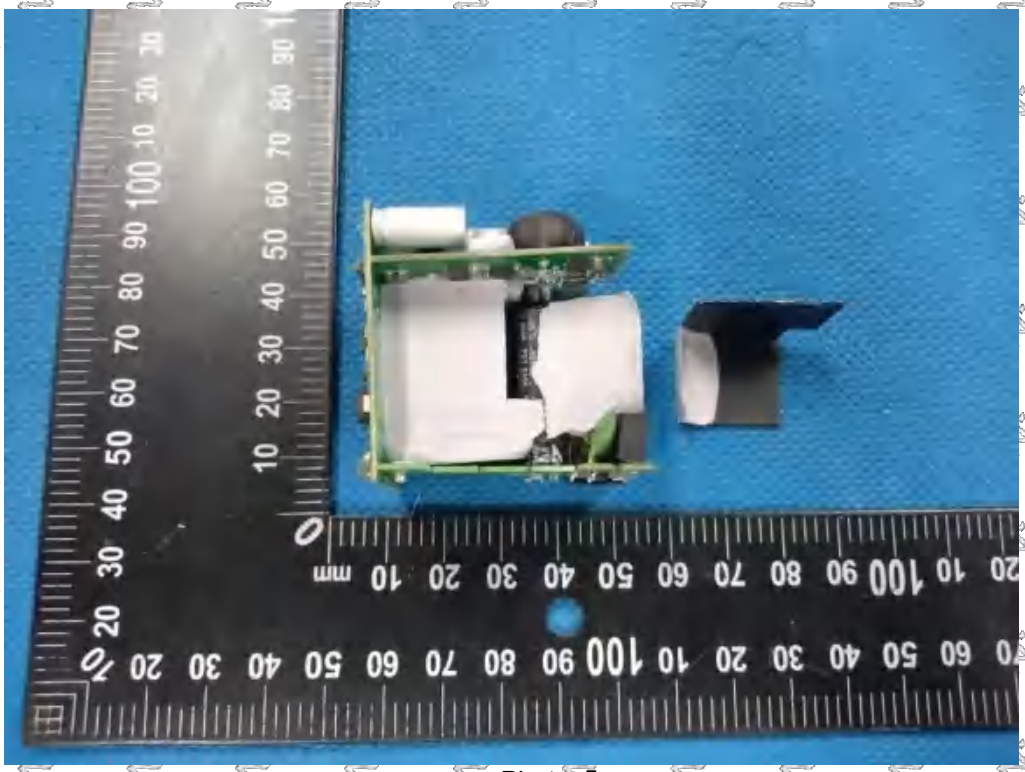

Photo 5

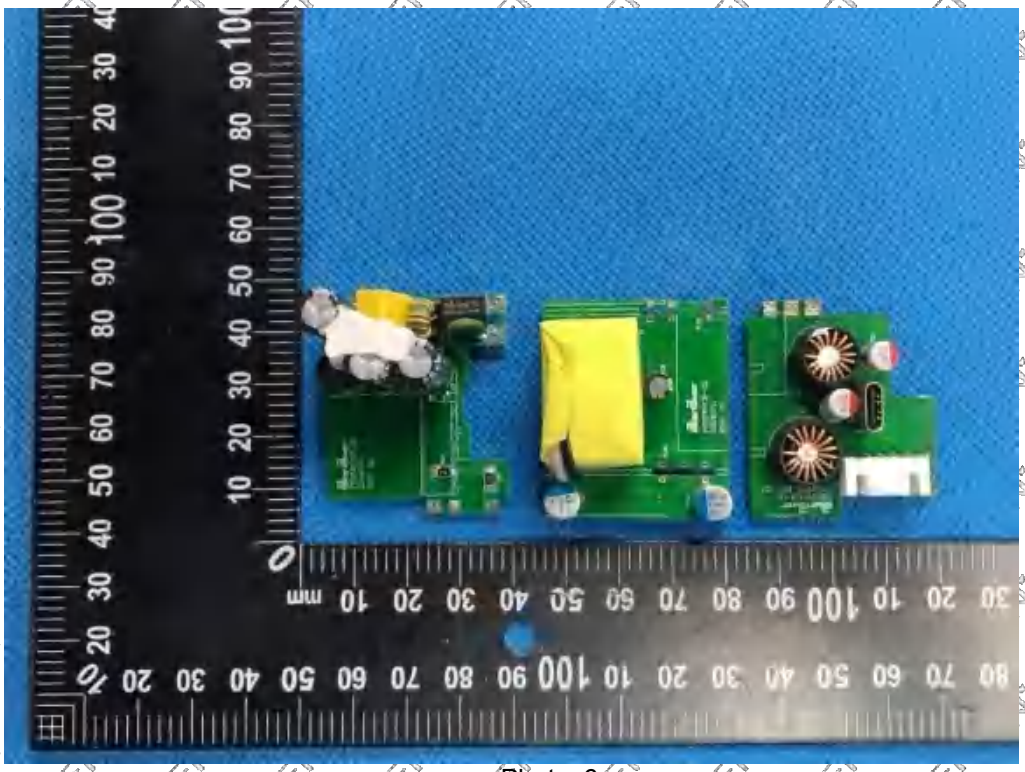

Photo 6

**Photo and Label of Product**

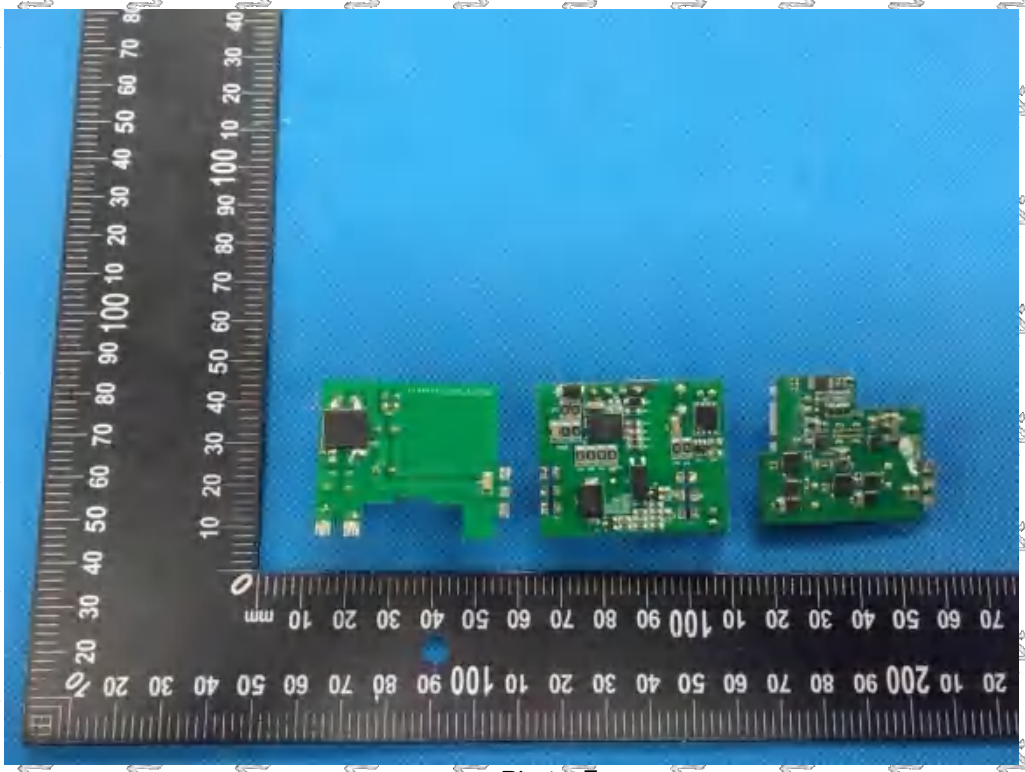

Photo 7


Photo 8 label

**Test Equipment List**

| Equipment | Model/Type | Measurement | Cal. Date | Valid Date |
|---|---|---|---|---|
| AC, DC Digital electric parameter Meter | WT310 | No load and active output | 2024-05-11 | 2025-05-10 |
| DC electronic load | 8711 | No load and active output | 2023-11-09 | 2024-11-08 |
| Stopwatch | ZSD-009 | No load and active output | 2023-11-09 | 2024-11-08 |
| Humidity & Temp. Recorder | TA218D | No load and active output | 2023-11-09 | 2024-11-08 |

**Ambient Temperature and Humidity**

Temperature: 24.8°C Humidity: 65.1%RH

====== End of Report ======