CEC Certificate of Compliance

Product Name: Power Adapter

Manufacturer GlobTek Inc.

Importer

Address: 186 veterans Drive

Northvale, NJ 07627

USA

Model Number: GT-430085009

Declare that the product conforms to the following specifications

This document hereby certifies the above listed products are in compliance with the California's Energy Efficiency Standards level V and meet the Appliance Efficiency Regulations, (California Code of Regulations, Title 20, Sections 1601 through 1608) dated January 2006.

The above listed products have been tested at a laboratory certified by the California Energy Commission. The test method was according to US EPA "Test Method for Calculating the Energy Efficiency of Single-Voltage External AC-DC and AC-AC Power Supplies" dated August 11, 2004.

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TEST REPORT

California Energy Commission's Appliance Regulations (Section 1601 – 1608 of Title 20 of the California Code of Regulations)

Report Reference No.: GT-430085009

Tested by (name +signature).....: JW

Engineer by (name +signature)....: JY

Approved by (name +signature)...: JL

Testing Laboratory: GlobTek Inc.

Address: GlobTek (Suzhou) Co., Ltd

Building 4, No 76 JinLing East Road,

Suzhou Industrial Park, Suzhou

JiangSu, 215021, China

Manufacturer's name: GlobTek (Suzhou) Co., Ltd

GlobTek (Suzhou) Co., Ltd

Building 4, No 76 JinLing East Road,

Suzhou Industrial Park, Suzhou

JiangSu, 215021, China

Test specification:

Standard: California Energy Commission's Appliance Regulations

(Section 1601 -1608 of Title 20 of the California Code of

Regulations)

Test procedure: US EPA-Test Method for Calculating the Energy

Efficiency of Single-Voltage External Ac-Dc and Ac-Ac

Power Supplies, August 11, 2004

Test item description: ■ AC-DC power supply □ AC-AC power supply

Trade Mark: GlobTek

Model/Type reference: GT-430085009

Ratings: Input: 100-240 Vac, 50-60 Hz, 1.2A

Output: 9Vdc, 4.0A

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Test item particulars ::

EUT output cord length:1530 mm + 100 / - 0 (16 AWG)

Possible test case verdicts:

-test case does not apply to the test object : N/A

-test object does meet the requirement: P(Pass)

-test object does not meet the requirement : F(Fail)

Testing:

Date of receipt of test item: 2011/05/20
Date (s) of performance of tests: 2011/05/20

General remarks:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a comma (point) is used as the decimal separator.

The Report contains the following Enclosures:

Enclosure 1 : Test Equipment List

General product information:

 The EUT (Equipment under Test) is an Ac-Dc switching supply for Information Technology Equipment used.

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US EPA – Test Method for Calculating the Energy Efficiency of Single-Voltage External

Ac-Dc and Ac-Ac Power Supplies

Clause Requirement + Test Result – Remark Verdict

| 4 | General Conditions for Measurement | | Р |
|----|---|--|---|
| a. | Test Voltage | | |
| | An ac reference source shall be used to Provide input voltage to the EUT. | See Enclosure 2 | Р |
| | Input to the EUT shall be the specified Voltage ± 1% and the specified frequency ± 1% | See appended table | Р |
| | The EUT shall be tested at two voltage and Frequency combinations: | See below | Р |
| | 115V at 60Hz | See appended table | Р |
| | 230v at 50Hz | See appended table | Р |
| b. | Load Condition The EUT shall be tested at the following load Conditions: | | |
| | Load condition 1:100% ± 2% | | Р |
| | Load condition 2: 75% ± 2% | | Р |
| | Load condition 3: 50% ± 2% | | Р |
| | Load condition 4: 25% ± 2% | | Р |
| | Load condition 5: 0% | 0 A | Р |
| C. | Testing Sequence | | |
| | The EUT shall be operated at 100% of nameplate current output for at least 30 minutes immediately prior to conducting efficiency measurements. | The EUT is operated at 100% of nameplate current output for 30 minutes | Р |
| | After this warm-up period, the technician shall monitor ac input power for a period of 5 minutes to assess the stability of the EUT. | | Р |
| | If the power level does not drift by more than 5% from the maximum value observed, the EUT can be considered stable and the measurements can be recorded at the end of the 5 minute period. | | P |
| | If ac input power is not stable over a 5 minute period, the technician shall follow the guidelines established by IEC 62301 for measuring average power or accumulated energy over time for both ac input and dc output | | N |
| | Efficiency measurements shall be conducted In sequence from Load Condition 1 to Load Condition 5 as indicated in Table | | Р |

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US EPA – Test Method for Calculating the Energy Efficiency of Single-Voltage External

Ac-Dc and Ac-Ac Power Supplies

| Clause | Requirement + Test | Result – Remark | Verdict | |
|--------|--------------------|-----------------|---------|--|
|--------|--------------------|-----------------|---------|--|

| Test results | | | | | | | |
|---|---|-------------|-----------------|-----------|----------|------|-----------|
| Temperature immediately surrounding the | | 25 (°ℂ) San | nple 1 | | | | |
| EUT(°C) ······ | • | : | | | | | |
| Test voltage (V) | | : | 115 (V) | | | | |
| Frequency (Hz) | | | 60 (Hz) | | | | |
| | | | sure at load co | ondition | | | |
| Test Item | 1 | 2 | 3 | 4 | 5 | | |
| Rms Output Current (mA) | 4000 | 3000 | 2000 | 1000 | 0 | | |
| Rms Output Voltage (V) | 8.84 | 8.92 | 8.99 | 9.06 | 9.14 | | |
| Active Output Power (W) | 35.34 | 26.72 | 17.96 | 9.03 | 0 | | |
| Rms input voltage (V) | 115 | 115 | 115 | 115 | 115 | | |
| Rms input Power (W) | 41.37 | 30.92 | 20.54 | 10.32 | 0.12 | | |
| Total Harmonic Distortion(THD) | 1.6% | 1.6% | 1.6% | 1.6% | 1.6% | | |
| True Power Factor | 0.590 | 0.569 | 0.540 | 0.487 | 0.033 | | |
| Power Consumed by EUT(W) | 0.00 | 0.00 4.00 | 100 | 6.03 4.20 | 2.58 | 1.29 | Mea. Req. |
| Fower Consumed by EOT(W) | 6.03 | 4.20 | 2.56 | 1.23 | 0.12 0.3 | | |
| Efficiency | 85.42 | 86.42 | 87.44 | 87.50 | N/A | | |
| Average Efficiency 86.69% | | 9% (Requ | uirement: 84.6 | 3 %) | Р | | |

Supplementary information:

CALIFORNIA COED OF REGULATIONS, TITLE 20: DIVISION, CHAPTER 4, ARTICLE 4, Section 1605.3(u)(1) states:

The efficiency in the active mode of power supplies manufactured on or after the effective Dates shall be not less than the applicable values shown (expressed as the decimal Equivalent of a percentage); and the energy consumption in the no-load mode of power Supplies manufactured on or after the effective dates shown shall be not greater than the Applicable values shown in Table 1 or Table 2 and Table 4.

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US EPA – Test Method for Calculating the Energy Efficiency of Single-Voltage External Ac-Dc and Ac-Ac Power Supplies

| Clause | Requirement + Test | Result – Remark | Verdict | |
|--------|--------------------|-----------------|---------|--|
|--------|--------------------|-----------------|---------|--|

| Test results | | | | | |
|---|-------|-------------|-----------------|----------|----------------|
| Temperature immediately surrounding the | | 25 (°C) San | nple 1 | | |
| EUT(°C) ······ | | •••••• | | | |
| Test voltage (V) | | : | 230 (V) | | |
| Frequency (Hz) | | | 50 (Hz) | | |
| Toot Itom | | Mea | sure at load co | ondition | |
| Test Item | 1 | 2 | 3 | 4 | 5 |
| Rms Output Current (mA) | 4000 | 3000 | 2000 | 1000 | 0 |
| Rms Output Voltage (V) | 8.85 | 8.91 | 8.98 | 9.06 | 9.14 |
| Active Output Power (W) | 35.33 | 26.71 | 17.94 | 9.03 | 0 |
| Rms input voltage (V) | 230 | 230 | 230 | 230 | 230 |
| Rms input Power (W) | 41.09 | 30.94 | 20.75 | 10.49 | 0.18 |
| Total Harmonic Distortion(THD) | 1.6% | 1.6% | 1.6% | 1.6% | 1.6% |
| True Power Factor | 0.499 | 0.477 | 0.446 | 0.389 | 0.026 |
| Power Consumed by EUT(W) | 5.76 | 4.23 | 2.81 | 1.46 | Mea. Req. 0.18 |
| Efficiency | 85.98 | 86.33 | 86.46 | 86.08 | N/A |
| Average Efficiency | 86.2 | 1% (Red | quirement: 84.6 | 63%) | Р |

Supplementary information:

CALIFORNIA COED OF REGULATIONS, TITLE 20: DIVISION, CHAPTER 4, ARTICLE 4, Section 1605.3(u)(1) states:

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US EPA – Test Method for Calculating the Energy Efficiency of Single-Voltage External

Ac-Dc and Ac-Ac Power Supplies

| Clause | Requirement + Test | Result – Remark | Verdict | |
|--------|--------------------|-----------------|---------|--|
|--------|--------------------|-----------------|---------|--|

| Test results | | | | | |
|---|---|-------------|-----------------|----------|-----------------|
| Temperature immediately surrounding the | | 25 (°ℂ) San | nple 2 | | |
| EUT(°C) ······ | • | •••••• | | | |
| Test voltage (V) | | : | 115 (V) | | |
| Frequency (Hz) | | : | 60 (Hz) | | |
| | | | sure at load co | ondition | |
| Test Item | 1 | 2 | 3 | 4 | 5 |
| Rms Output Current (mA) | 4000 | 3000 | 2000 | 1000 | 0 |
| Rms Output Voltage (V) | 8.88 | 8.95 | 9.02 | 9.09 | 9.16 |
| Active Output Power (W) | 35.51 | 26.84 | 18.03 | 9.09 | 0 |
| Rms input voltage (V) | 115 | 115 | 115 | 115 | 115 |
| Rms input Power (W) | 41.52 | 31.04 | 20.61 | 10.41 | 0.13 |
| Total Harmonic Distortion(THD) | 1.6% | 1.6% | 1.6% | 1.6% | 1.6% |
| True Power Factor | 0.589 | 0.568 | 0.539 | 0.487 | 0.031 |
| Power Consumed by EUT(W) | 6.01 | 4.20 | 2.58 | 1.33 | Mea. Req. |
| 1 Ower Consumed by LOT(VV) | 0.01 | 4.20 | 2.50 | 1.00 | 0.13 0.3 |
| Efficiency | 85.53 | 86.47 | 87.48 | 87.22 | N/A |
| Average Efficiency | 86.6 | 7% (Red | quirement: 84.6 | 63%) | Р |

Supplementary information:

CALIFORNIA COED OF REGULATIONS, TITLE 20: DIVISION, CHAPTER 4, ARTICLE 4, Section 1605.3(u)(1) states:

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US EPA – Test Method for Calculating the Energy Efficiency of Single-Voltage External

Ac-Dc and Ac-Ac Power Supplies

| Clause Requirement + Test | Result – Remark | Verdict |
|---------------------------|-----------------|---------|
|---------------------------|-----------------|---------|

| Test results | | | | | | | | | | |
|---|---|--------------------|-----------------|-----------|----------|-----------|------|------|------|-----------|
| Temperature immediately surrounding the 2 | | 25 (°ℂ) San | nple 2 | | | | | | | |
| EUT(°C) ······ | • | •••••• | | | | | | | | |
| Test voltage (V) | | : | 230 (V) | | | | | | | |
| Frequency (Hz) | | | 50 (Hz) | | | | | | | |
| Toot Itom | | Mea | sure at load co | ondition | | | | | | |
| Test Item | 1 | 2 | 3 | 4 | 5 | | | | | |
| Rms Output Current (mA) | 4000 | 3000 | 2000 | 1000 | 0 | | | | | |
| Rms Output Voltage (V) | 8.88 | 8.95 | 9.02 | 9.09 | 9.16 | | | | | |
| Active Output Power (W) | 35.52 | 26.83 | 18.02 | 9.07 | 0 | | | | | |
| Rms input voltage (V) | 230 | 230 | 230 | 230 | 230 | | | | | |
| Rms input Power (W) | 41.25 | 31.10 | 20.99 | 10.58 | 0.19 | | | | | |
| Total Harmonic Distortion(THD) | 1.6% | 1.6% | 1.6% | 1.6% | 1.6% | | | | | |
| True Power Factor | 0.493 | 0.470 | 0.442 | 0.388 | 0.023 | | | | | |
| Power Consumed by EUT(W) | 5 73 4 3 | 5 73 4 27 | 5 73 4 27 | 5 73 4 27 | 5.73 4.2 | 5.73 4.27 | 4 27 | 2.97 | 1.51 | Mea. Req. |
| | 5.70 | | | | 0.19 0.3 | | | | | |
| Efficiency | 86.11 | 86.27 | 85.85 | 85.73 | N/A | | | | | |
| Average Efficiency | 85.9 | 9% (Red | quirement: 84.6 | 63%) | Р | | | | | |

Supplementary information:

CALIFORNIA COED OF REGULATIONS, TITLE 20: DIVISION, CHAPTER 4, ARTICLE 4, Section 1605.3(u)(1) states:

The efficiency in the active mode of power supplies manufactured on or after the effective Dates shall be not less than the applicable values shown (expressed as the decimal Equivalent of a percentage); and the energy consumption in the no-load mode of power Supplies manufactured on or after the effective dates shown shall be not greater than the Applicable values shown in Table 1 or Table 2 and Table 4.

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US EPA – Test Method for Calculating the Energy Efficiency of Single-Voltage External

Ac-Dc and Ac-Ac Power Supplies

| Clause | Requirement + Test | Result – Remark | Verdict | |
|--------|--------------------|-----------------|---------|--|
|--------|--------------------|-----------------|---------|--|

| Test results | | | | | |
|---|---|-------------|-----------------|----------|-----------|
| Temperature immediately surrounding the | | 25 (°ℂ) San | nple 3 | | |
| EUT(°C) ······ | • | •••••• | | | |
| Test voltage (V) | | : | 115 (V) | | |
| Frequency (Hz) | | : | 60 (Hz) | | |
| | | | sure at load co | ondition | |
| Test Item | 1 | 2 | 3 | 4 | 5 |
| Rms Output Current (mA) | 4000 | 3000 | 2000 | 1000 | 0 |
| Rms Output Voltage (V) | 8.84 | 8.91 | 8.98 | 9.05 | 9.12 |
| Active Output Power (W) | 35.34 | 26.72 | 17.94 | 9.03 | 0 |
| Rms input voltage (V) | 115 | 115 | 115 | 115 | 115 |
| Rms input Power (W) | 41.33 | 30.90 | 20.50 | 10.36 | 0.13 |
| Total Harmonic Distortion(THD) | 1.6% | 1.6% | 1.6% | 1.6% | 1.6% |
| True Power Factor | 0.589 | 0.569 | 0.539 | 0.487 | 0.034 |
| Power Consumed by EUT(W) | 5.99 | 4.18 | 2.56 | 1.33 | Mea. Req. |
| r ower consumed by EOT(W) | 5.99 | 4.10 | 2.50 | 1.33 | 0.13 0.3 |
| Efficiency | 85.51 | 86.47 | 87.51 | 87.16 | N/A |
| Average Efficiency | 86.6 | 6% (Red | quirement: 84.6 | 63%) | Р |

Supplementary information:

CALIFORNIA COED OF REGULATIONS, TITLE 20: DIVISION, CHAPTER 4, ARTICLE 4, Section 1605.3(u)(1) states:

The efficiency in the active mode of power supplies manufactured on or after the effective Dates shall be not less than the applicable values shown (expressed as the decimal Equivalent of a percentage); and the energy consumption in the no-load mode of power Supplies manufactured on or after the effective dates shown shall be not greater than the Applicable values shown in Table 1 or Table 2 and Table 4.

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US EPA – Test Method for Calculating the Energy Efficiency of Single-Voltage External

Ac-Dc and Ac-Ac Power Supplies

| Clause | Requirement + Test | Result – Remark | Verdict | |
|--------|--------------------|-----------------|---------|--|

| Test results | | | | | | |
|---|-------------------------------|-------|--------------------|--------------------|--------------------|--|
| Temperature immediately surrounding the | | | 25 (°ℂ) San | | | |
| EUT(°C) ······:: | | | | | | |
| Test voltage (V): | | | 230 (V) | | | |
| Frequency (Hz): | | | 50 (Hz) | | | |
| | Measure at load condition | | | | | |
| Test Item | 1 | 2 | 3 | 4 | 5 | |
| Rms Output Current (mA) | 4000 | 3000 | 2000 | 1000 | 0 | |
| Rms Output Voltage (V) | 8.84 | 8.91 | 8.98 | 9.05 | 9.12 | |
| Active Output Power (W) | 35.36 | 26.71 | 17.93 | 9.03 | 0 | |
| Rms input voltage (V) | 230 | 230 | 230 | 230 | 230 | |
| Rms input Power (W) | 41.07 | 30.91 | 20.92 | 10.52 | 0.22 | |
| Total Harmonic Distortion(THD) | 1.6% | 1.6% | 1.6% | 1.6% | 1.6% | |
| True Power Factor | 0.49*3 | 0.471 | 0.442 | 0.389 | 0.025 | |
| Power Consumed by EUT(W) | 5.71 | 4.20 | 2.99 | 1.49 | Mea. Req. 0.22 0.3 | |
| Efficiency | 86.10 | 86.41 | 85.71 | 85.84 | N/A | |
| Average Efficiency | Average Efficiency 86.01% (Re | | | quirement: 84.63%) | | |

Supplementary information:

CALIFORNIA COED OF REGULATIONS, TITLE 20: DIVISION, CHAPTER 4, ARTICLE 4, Section 1605.3(u)(1) states:

The efficiency in the active mode of power supplies manufactured on or after the effective Dates shall be not less than the applicable values shown (expressed as the decimal Equivalent of a percentage); and the energy consumption in the no-load mode of power Supplies manufactured on or after the effective dates shown shall be not greater than the Applicable values shown in Table 1 or Table 2 and Table 4.

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Table 1: Energy-Efficiency Criteria for AC-AC and AC-DC External Power Supplies in Active Mode:Standard Models

| Nameplate Output Power (Pno) | Minimum Average Efficiency in Active Mode | | |
|------------------------------|--|--|--|
| | Mode (expressed as a decimal) ² | | |
| 0 to ≤ 1 Watt | ≥0.480 * P no + 0.140 | | |
| > 1 to ≤ 49 Watts | ≥[0.0626 * Ln (Pno)] + 0.622 | | |
| > 49 Watts | ≥0.870 | | |

Table 2: Energy-Efficiency Criteria for AC-AC and AC-DC External Power Supplies in Active Mode:Low Voltage Models

| Nameplate Output Power (Pno) | Minimum Average Efficiency in Active Mode Mode (expressed as a decimal) ² | |
|------------------------------|---|--|
| 0 to ≤ 1 Watt | ≥0.497 * <i>Pno</i> + 0.067 | |
| > 1 to ≤ 49 Watts | ≥[0.0750 * Ln (Pno)] + 0.561 | |
| > 49 Watts | ≥0.860 | |

Table 3: Examples of Minimum Average Efficiency in Active Mode

| Sample | Nameplate | Nameplate | Nameplate | Average Efficiency in Active Mode |
|--------|-------------|-----------|-----------|--|
| | Output | Output | Output | (expressed as a decimal) |
| | Power (Pno) | Voltage | Current | |
| PS 1 | 0.75 watts | 1V | 750 mA | 0.497 * 0.75+0.067=0.4397 or 0.44 |
| PS 2 | 0.75 watts | 10V | 75 mA | 0.480 * 0.75+0.140=0.5 |
| PS 3 | 20 watts | 5V | 4000 mA | [0.0750 * Ln (20)]+0.561 = 0.7856 or 0.79 |
| PS 4 | 20 watts | 10V | 2000 mA | [0.0626 * Ln (20)]+0.622=0.8077or 0.81 |
| PS 5 | 75 watts | 5V | 15000 mA | 0.86 |
| PS 6 | 75 watts | 10V | 750 mA | 0.87 |

Table 4: Energy Consumption Criteria for No-Load

| Nameplate Output Power (Pno) | Maximum Power in No-Load | | |
|-------------------------------|--------------------------|------------------|--|
| | AC-AC EPS | AC-DC EPS | |
| 0 to < 50 Watts | ≤ 0.5 watts | \leq 0.3 watts | |
| \geq 50 to \leq 250 Watts | ≤ 0.5 watts | ≤ 0.5 watts | |

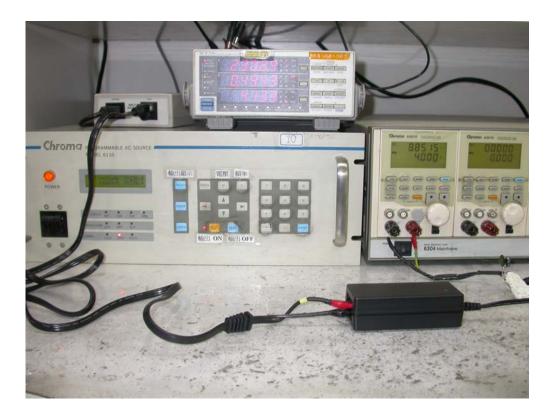
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Enclosure 1

Test Equipment List

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Due Date |
|----------------------------|--------------|-------|---------------------------|------------------|------------|
| Ac Power Source | CHROMA | 6110 | A6G0790001 | | |
| Ac Power Source | CHROMA | 6408 | 6408-2000553 | | - |
| Digital Power Meter | YOKOGAWA | WT210 | B6G1080007 (91F138523) | 2010-12-17 | 2011-12-16 |
| Digital Power Meter | YOKOGAWA | WT210 | 12C609995F | 2010-12-17 | 2011-12-16 |
| Electronic Load DC Load | CHROMA | 63010 | B6G0450009 (63043352) | 2011-03-25 | 2012-03-25 |
| Electronic Load DC Load | PRODIGIT | 3300C | B6G1450025 (51200C474) | 2011-03-25 | 2012-03-25 |

Test Equipment Set-up



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