|  |  |
| --- | --- |
| **RFP Document Number:**  |  |
| **Model No.** | GT-E3056CV6012 |
| **P/N:** |  |
| **Customer:** |  |
| **Test Start Date:** | 7 Apr 2015 | **Test Completion Date:** | 7 Apr 2015 |
| **Report Completion Date:** | 8 Apr 2015 |
| **Test Performed by:** | Lorenzo R. Madariaga II |
| **Revision History:** | Rev 01 | Initial Release |
|  |  |
| **Objective:** | Perform harmonic measurements using EN 61000-3-2:2006 Standard |
| **Conclusion:** | The unit passes the harmonic test as per EN 61000-3-2:2006. |

**Test Set-Up:**

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**List of Equipment used:**

|  |  |  |
| --- | --- | --- |
| **Equipment** | **Manufacturer** | **Description** |
| Power Analyzer | Yokogawa | WT3000 Precision Power AnalyzerModel 760302No: 91R225637 |
| AC Source | Chroma | Programmable AC SourceModel 61503 |

**Current and Voltage Waveform:**

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**Harmonics Measurement:**

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**Test Measurements and Parameters:**

|  |  |  |
| --- | --- | --- |
| Manufacturer Name | GLOBTEK, INC. |  |
| Model | GT-E3056CV6012 |  |
| Type, P/N |   |  |
|  |  |  |
|  |  |  |
| Nameplate Specifications |
| Related Product Specifications | Input | Output |
| Voltage (V) | 100-240 | 12 |
| Current (A) | 1.5A MAX | 5 |
| Rated Power (Watts) |   | 60 |
| Frequency (Hz) | 50-60 |  |
|  |  |  |
| Date Measured | 7-Apr-15 |
|  |  |  |
|  |  |  |
|   | Active Power Measurements (30min Initial Warm-Up, 5min stability time per load condition) |  |
| Percent of Rated Load | 50% |  |
| DC Output Current measured (mA) (+/-2% Rated) | 2506.8 |  |
| DC Output Voltage (V) | 12.3318 |  |
| DC Output Power (W)  | 30.91323 |  |
|   |   |  |
| AC Input Voltage (V) | 230 |  |
| AC Input Power (W) | 36.901 |  |
| Total Harmonic Distortion (THD%) (1/Total) | 17.1480 |  |
| True Power Factor(Watts/VA) | 0.9012 |  |
| AC Input Frequency (Hz) | 50 |  |
|   |   |  |
| Efficiency | 83.774% |  |
|  |  |  |
|  |

**Harmonics and Class C Limits (EN 61000-3-2:2006):**

Current (mA)

Harmonic Number

**Harmonics and Class C Limits (EN 61000-3-2:2006):**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Harmonic Order | Maximum permissible Harmonic Current | Input Current (mA) | Harmonic Limits (mA) | Measured Fundamental Current (mA) | Status |
| 1 |   | 176.866 | 0 | 172.112 |   |
| 2 | 2% | 176.866 | 3.537 | 0.095 | **PASS** |
| 3 | 27.04% | 176.866 | 47.820 | 22.683 | **PASS** |
| 5 | 10% | 176.866 | 17.687 | 12.462 | **PASS** |
| 7 | 7% | 176.866 | 12.381 | 9.857 | **PASS** |
| 9 | 5% | 176.866 | 8.843 | 6.136 | **PASS** |
| 11 | 3% | 176.866 | 5.306 | 3.215 | **PASS** |
| 13 | 3% | 176.866 | 5.306 | 3.811 | **PASS** |
| 15 | 3% | 176.866 | 5.306 | 3.700 | **PASS** |
| 17 | 3% | 176.866 | 5.306 | 3.478 | **PASS** |
| 19 | 3% | 176.866 | 5.306 | 2.880 | **PASS** |
| 21 | 3% | 176.866 | 5.306 | 2.128 | **PASS** |
| 23 | 3% | 176.866 | 5.306 | 1.972 | **PASS** |
| 25 | 3% | 176.866 | 5.306 | 1.829 | **PASS** |
| 27 | 3% | 176.866 | 5.306 | 2.386 | **PASS** |
| 29 | 3% | 176.866 | 5.306 | 1.745 | **PASS** |
| 31 | 3% | 176.866 | 5.306 | 1.709 | **PASS** |
| 33 | 3% | 176.866 | 5.306 | 1.574 | **PASS** |
| 35 | 3% | 176.866 | 5.306 | 1.902 | **PASS** |
| 37 | 3% | 176.866 | 5.306 | 1.354 | **PASS** |
| 39 | 3% | 176.866 | 5.306 | 1.463 | **PASS** |

**Remarks/Shipment:**

1. The unit passes the harmonic test as per EN 61000-3-2:2006