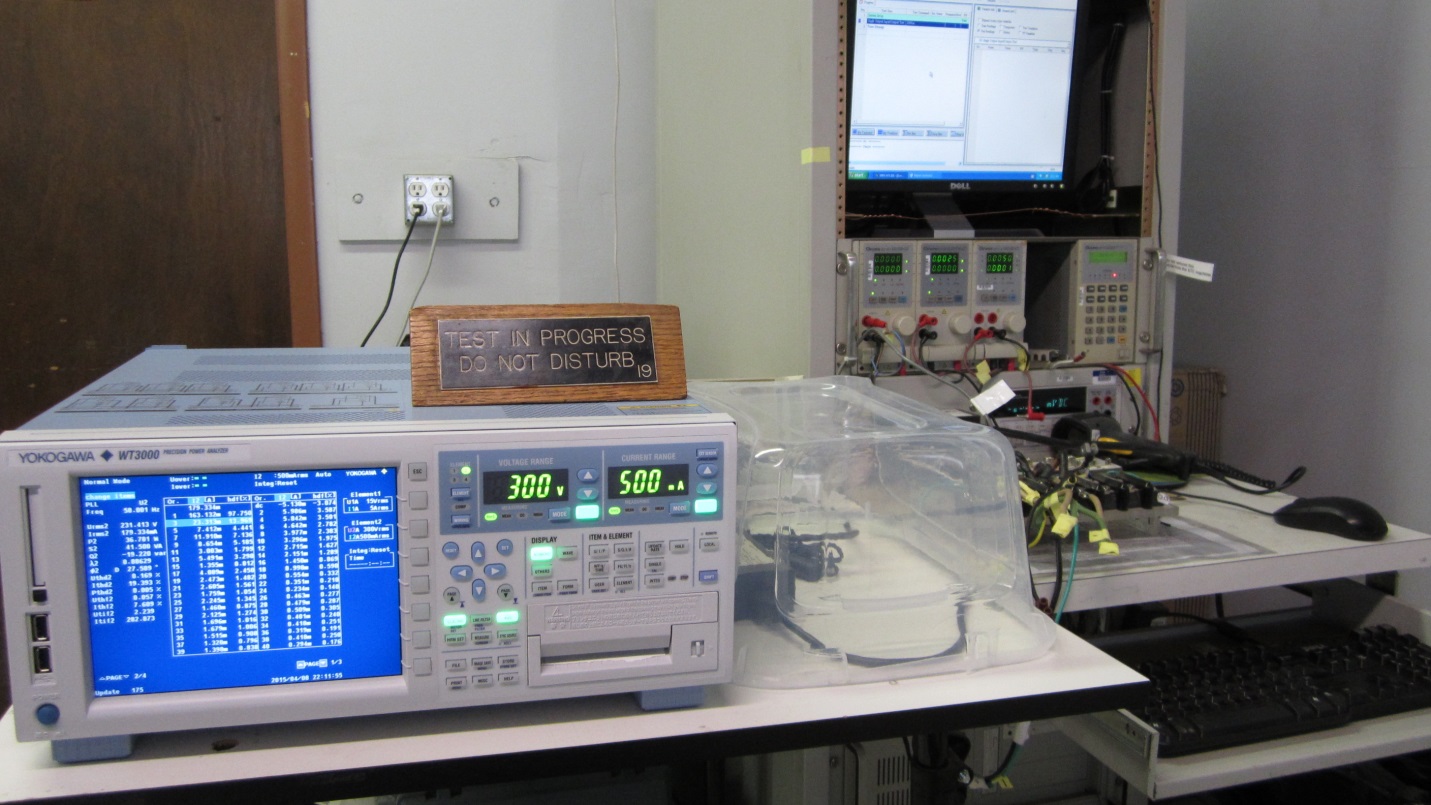
|  |  |  |  |
| --- | --- | --- | --- |
| **RFP Document Number:** |  | | |
| **Model No.** | GT-E3056CV6012 | | |
| **P/N:** |  | | |
| **Customer:** |  | | |
| **Test Start Date:** | 7 Apr 2015 | **Test Completion Date:** | 7 Apr 2015 |
| **Report Completion Date:** | 8 Apr 2015 | | |
| **Test Performed 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. | | |

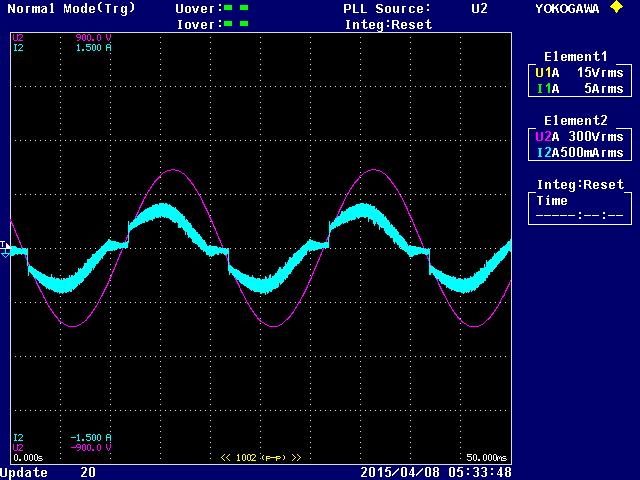
**Test Set-Up:**

****

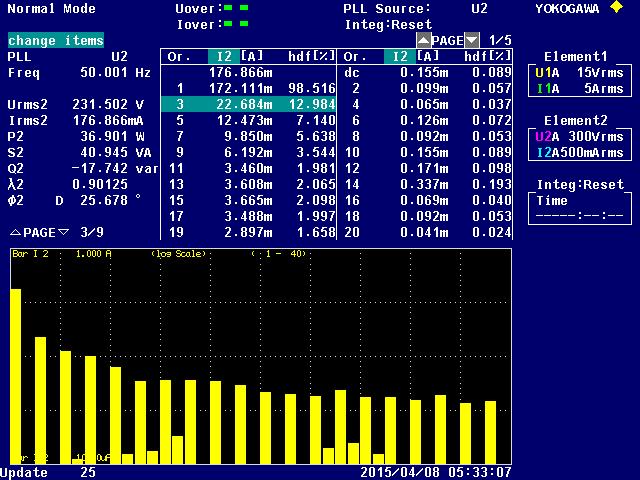
**List of Equipment used:**

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

**Current and Voltage Waveform:**

****

**Harmonics Measurement:**

****

**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