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**REPORT NO.: EM-SC150020 (C1M1504208)**

**DATE: 2015. 04. 22**

1. APPLICANT : OrangeTek Limited  
 Coach House Blakenhall Park Bar Lane,  
 Barton under Needwood, Burton upon Trent,  
 DE13 8AJ, United Kingdom.
2. MANUFACTURER : OrangeTek Limited  
 Coach House Blakenhall Park Bar Lane,  
 Barton under Needwood, Burton upon Trent,  
 DE13 8AJ, United Kingdom.
3. PREPARED BY : AUDIX Technology Corporation.  
 EMC Department  
 No. 53-11, Dingfu, Linkou Dist.,  
 New Taipei City 244, Taiwan  
 Tel: (02) 2609-9301~2; Fax: (02) 2609-9303
4. DESCRIPTION OF DEVICE
  - A) MODEL NO. : Voyager 12 Xi 300mA
  - B) SERIAL NO. : N/A
  - C) TEST UNIT : Sample 1, Sample 2, Sample 3, Sample 4, Sample 5
  - D) TEST VOLTAGE : AC 210V/50Hz, AC 220V/50Hz, AC 230V/50Hz,  
 AC 240V/50Hz, AC 250V/50Hz
5. DATE OF MEASUREMENT : 2015. 04. 21
6. PLACE OF MEASUREMENT : **AUDIX Technology Corporation**  
**EMC Department**  
 Immunity Test Site  
 No. 53-11, Dingfu, Linkou Dist.,  
 New Taipei City 244, Taiwan
- SIGNATURE :

  
 Alex Deng/Deputy Manager  
 AUDIX Technology Corporation  
 EMC Department  
 2015. 04. 22

Sample 1 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	13.26	0.066	0.952
220	50	13.29	0.064	0.944
230	50	13.34	0.062	0.937
240	50	13.43	0.06	0.928
250	50	13.52	0.059	0.919

Sample 2 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	13.39	0.067	0.955
220	50	13.42	0.064	0.947
230	50	13.49	0.062	0.939
240	50	13.59	0.061	0.931
250	50	13.63	0.059	0.923

Sample 3 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	13.35	0.067	0.953
220	50	13.37	0.064	0.946
230	50	13.41	0.062	0.938
240	50	13.47	0.06	0.93
250	50	13.56	0.059	0.922

Sample 4 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	13.35	0.067	0.952
220	50	13.42	0.065	0.945
230	50	13.47	0.062	0.938
240	50	13.50	0.061	0.929
250	50	13.57	0.059	0.919

Sample 5 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	13.32	0.067	0.953
220	50	13.35	0.064	0.946
230	50	13.41	0.062	0.939
240	50	13.49	0.06	0.931
250	50	13.58	0.059	0.923

**Watts**

Voltage \ Sample	1	2	3	4	5
210	13.26	13.39	13.35	13.35	13.32
220	13.29	13.42	13.37	13.42	13.35
230	13.34	13.49	13.41	13.47	13.41
240	13.43	13.59	13.47	13.50	13.49
250	13.52	13.63	13.56	13.57	13.58

**VA**

Voltage \ Sample	1	2	3	4	5
210	13.9	14.0	14.0	14.0	14.0
220	14.1	14.2	14.1	14.2	14.1
230	14.3	14.4	14.3	14.4	14.3
240	14.5	14.6	14.5	14.5	14.5
250	14.7	14.8	14.7	14.8	14.7

**Notes: Test be conducted after operating for 1 hour to reach their steady load state.**

Sample 1 Dimmed to 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	9.93	0.051	0.924
220	50	10.01	0.050	0.912
230	50	10.10	0.049	0.902
240	50	10.18	0.048	0.891
250	50	10.23	0.047	0.879

Sample 2 Dimmed to 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	9.99	0.051	0.927
220	50	10.07	0.050	0.917
230	50	10.16	0.049	0.907
240	50	10.23	0.048	0.894
250	50	10.27	0.047	0.882

Sample 3 Dimmed to 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	9.95	0.051	0.925
220	50	10.01	0.050	0.914
230	50	10.10	0.049	0.903
240	50	10.19	0.048	0.893
250	50	10.25	0.047	0.881

Sample 4 Dimmed to 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	10.00	0.051	0.925
220	50	10.04	0.050	0.912
230	50	10.09	0.049	0.902
240	50	10.18	0.048	0.892
250	50	10.28	0.047	0.879

Sample 5 Dimmed to 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	9.96	0.051	0.927
220	50	10.00	0.050	0.916
230	50	10.08	0.048	0.904
240	50	10.17	0.047	0.893
250	50	10.26	0.046	0.882

**Watts**

Voltage \ Sample	1	2	3	4	5
210	9.93	9.99	9.95	10.00	9.96
220	10.01	10.07	10.01	10.04	10.00
230	10.10	10.16	10.10	10.09	10.08
240	10.18	10.23	10.19	10.18	10.17
250	10.23	10.27	10.25	10.28	10.26

**VA**

Voltage \ Sample	1	2	3	4	5
210	10.8	10.8	10.7	10.8	10.8
220	11.0	11.0	11.0	11.0	10.9
230	11.2	11.2	11.2	11.2	11.2
240	11.4	11.4	11.4	11.4	11.4
250	11.7	11.6	11.6	11.7	11.6

**Notes: Test be conducted after operating for 1 hour to reach their steady load state.**

Sample 1 Dimmed to 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	7.84	0.042	0.891
220	50	7.92	0.041	0.878
230	50	8.02	0.040	0.864
240	50	8.09	0.040	0.847
250	50	8.13	0.039	0.830

Sample 2 Dimmed to 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	7.88	0.042	0.894
220	50	7.97	0.041	0.881
230	50	8.03	0.040	0.868
240	50	8.07	0.040	0.852
250	50	8.15	0.039	0.835

Sample 3 Dimmed to 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	7.88	0.042	0.893
220	50	7.92	0.041	0.879
230	50	8.00	0.040	0.866
240	50	8.09	0.040	0.850
250	50	8.14	0.039	0.833

Sample 4 Dimmed to 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	7.87	0.042	0.893
220	50	7.93	0.041	0.878
230	50	8.01	0.040	0.862
240	50	8.11	0.040	0.847
250	50	8.20	0.039	0.834

Sample 5 Dimmed to 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	7.83	0.042	0.895
220	50	7.93	0.041	0.881
230	50	8.00	0.040	0.866
240	50	8.05	0.039	0.850
250	50	8.11	0.039	0.835

**Watts**

Voltage \ Sample	1	2	3	4	5
210	7.84	7.88	7.88	7.87	7.83
220	7.92	7.97	7.92	7.93	7.93
230	8.02	8.03	8.00	8.01	8.00
240	8.09	8.07	8.09	8.11	8.05
250	8.13	8.15	8.14	8.20	8.11

**VA**

Voltage \ Sample	1	2	3	4	5
210	8.8	8.8	8.8	8.8	8.8
220	9.0	9.0	9.0	9.0	9.0
230	9.3	9.3	9.3	9.3	9.2
240	9.5	9.5	9.5	9.6	9.5
250	9.8	9.8	9.8	9.8	9.7

**Notes: Test be conducted after operating for 1 hour to reach their steady load state.**

## Photograph of Sample

Photo 1 View of EUT



Photo 2 View of EUT

