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REPORT NO.: EM-SC150022 (C1M1712301, C1M1504210) **REISSUE DATE: 2017. 12. 20**

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
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   New Taipei City 244, Taiwan
   Tel: (02) 2609-9301~2; Fax: (02) 2609-9303

4. DESCRIPTION OF DEVICE
   - A) MODEL NO. : Voyager 24W
   - 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

- **REMARK OF REV. 01** : **model number changed**
- SIGNATURE :

Alex Deng/Deputy Manager
AUDIX Technology Corporation
EMC Department
Reissue Date: 2017. 12. 20

Sample 1 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	23.91	0.116	0.983
220	50	23.92	0.111	0.980
230	50	23.92	0.107	0.976
240	50	23.97	0.103	0.973
250	50	24.03	0.099	0.968

Sample 2 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	24.01	0.116	0.983
220	50	24.01	0.111	0.980
230	50	24.04	0.107	0.976
240	50	24.09	0.103	0.973
250	50	24.16	0.100	0.969

Sample 3 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	23.95	0.116	0.982
220	50	23.96	0.111	0.980
230	50	24.00	0.107	0.976
240	50	24.06	0.103	0.973
250	50	24.11	0.100	0.969

Sample 4 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	23.92	0.116	0.983
220	50	23.92	0.111	0.980
230	50	23.95	0.107	0.975
240	50	24.01	0.103	0.972
250	50	24.08	0.099	0.968

Sample 5 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	23.92	0.116	0.983
220	50	23.95	0.111	0.980
230	50	23.96	0.107	0.976
240	50	23.98	0.103	0.973
250	50	24.02	0.099	0.970

Watts

Voltage \ Sample	1	2	3	4	5
210	23.91	24.01	23.95	23.92	23.92
220	23.92	24.01	23.96	23.92	23.95
230	23.92	24.04	24.00	23.95	23.96
240	23.97	24.09	24.06	24.01	23.98
250	24.03	24.16	24.11	24.08	24.02

VA

Voltage \ Sample	1	2	3	4	5
210	24.3	24.4	24.4	24.4	24.3
220	24.4	24.5	24.5	24.4	24.4
230	24.5	24.6	24.6	24.5	24.5
240	24.7	24.8	24.7	24.7	24.7
250	24.8	24.9	24.9	24.9	24.8

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	17.24	0.085	0.969
220	50	17.29	0.081	0.964
230	50	17.31	0.078	0.959
240	50	17.34	0.076	0.951
250	50	17.41	0.074	0.946

Sample 2 Dimmed to 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	17.30	0.085	0.970
220	50	17.36	0.082	0.965
230	50	17.40	0.079	0.959
240	50	17.42	0.076	0.952
250	50	17.46	0.074	0.947

Sample 3 Dimmed to 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	17.24	0.085	0.969
220	50	17.28	0.081	0.963
230	50	17.37	0.079	0.958
240	50	17.42	0.076	0.952
250	50	17.46	0.074	0.947

Sample 4 Dimmed to 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	17.23	0.085	0.969
220	50	17.29	0.081	0.964
230	50	17.36	0.079	0.959
240	50	17.41	0.076	0.951
250	50	17.44	0.074	0.946

Sample 5 Dimmed to 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	17.24	0.085	0.969
220	50	17.30	0.081	0.965
230	50	17.34	0.079	0.960
240	50	17.36	0.076	0.953
250	50	17.41	0.074	0.947

Watts

Voltage \ Sample	1	2	3	4	5
210	17.24	17.30	17.24	17.23	17.24
220	17.29	17.36	17.28	17.29	17.30
230	17.31	17.40	17.37	17.36	17.34
240	17.34	17.42	17.42	17.41	17.36
250	17.41	17.46	17.46	17.44	17.41

VA

Voltage \ Sample	1	2	3	4	5
210	17.8	17.8	17.8	17.8	17.8
220	17.9	18.0	17.9	17.9	17.9
230	18.1	18.1	18.1	18.1	18.1
240	18.2	18.3	18.3	18.3	18.2
250	18.4	18.4	18.5	18.4	18.4

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	12.97	0.065	0.951
220	50	13.03	0.063	0.942
230	50	13.06	0.061	0.934
240	50	13.11	0.059	0.925
250	50	13.19	0.058	0.915

Sample 2 Dimmed to 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	13.02	0.065	0.951
220	50	13.08	0.063	0.944
230	50	13.10	0.061	0.936
240	50	13.16	0.059	0.926
250	50	13.26	0.058	0.917

Sample 3 Dimmed to 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	12.99	0.065	0.950
220	50	13.02	0.063	0.942
230	50	13.06	0.061	0.934
240	50	13.14	0.059	0.926
250	50	13.23	0.058	0.916

Sample 4 Dimmed to 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	13.00	0.065	0.951
220	50	13.03	0.063	9.430
230	50	13.07	0.061	0.934
240	50	13.14	0.059	0.925
250	50	13.23	0.058	0.915

Sample 5 Dimmed to 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	12.98	0.065	0.951
220	50	13.01	0.063	0.943
230	50	13.05	0.061	0.936
240	50	13.13	0.059	0.927
250	50	13.22	0.058	0.918

Watts

Voltage \ Sample	1	2	3	4	5
210	12.97	13.02	12.99	13.00	12.98
220	13.03	13.08	13.02	13.03	13.01
230	13.06	13.10	13.06	13.07	13.05
240	13.11	13.16	13.14	13.14	13.13
250	13.19	13.26	13.23	13.23	13.22

VA

Voltage \ Sample	1	2	3	4	5
210	13.7	13.7	13.7	13.7	13.6
220	13.8	13.8	13.8	13.8	13.8
230	14.0	14.0	14.0	14.0	13.9
240	14.2	14.2	14.2	14.2	14.2
250	14.4	14.5	14.5	14.5	14.4

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