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**REPORT NO.: EM-SC1020020 (C1M1310060)**

**DATE: Oct. 15, 2013**

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 : TERRALED 180 400mA  
 A) MODEL NO. : SL-180N1T2V3B2  
 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 : Oct. 11, 2013
6. PLACE OF MEASUREMENT : **AUDIX Technology Corporation**  
**EMC Department**  
 No.3 Shielded Room &  
 No. 2 Semi-Anechoic Chamber  
 No. 67-4, Dingfu, Linkou Dist.,  
 New Taipei City 244, Taiwan

● SIGNATURE :

  
 Leon Liu/Deputy General Manager  
 AUDIX Technology Corporation  
 EMC Department  
 Date: Oct. 15, 2013

Sample 1 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	254.17	1.2459	0.9708
220	50	253.56	1.1872	0.9661
230	50	250.07	1.1311	0.9602
240	50	246.14	1.0749	0.9532
250	50	244.41	1.0323	0.9458

Sample 2 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	245.46	1.2111	0.9644
220	50	244.29	1.1485	0.9578
230	50	239.69	1.0952	0.9504
240	50	237.49	1.0491	0.9421
250	50	235.89	1.0099	0.9331

Sample 3 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	256.34	1.2599	0.9687
220	50	252.69	1.1929	0.9631
230	50	250.84	1.1386	0.9569
240	50	248.27	1.0890	0.9496
250	50	234.59	1.0027	0.9358

Sample 4 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	257.17	1.2644	0.9681
220	50	254.53	1.2006	0.9628
230	50	252.21	1.1451	0.9567
240	50	250.41	1.0973	0.9501
250	50	248.75	1.0545	0.9425

Sample 5 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	256.88	1.2589	0.9683
220	50	252.62	1.1932	0.9629
230	50	250.82	1.1388	0.9565
240	50	248.35	1.0895	0.9493
250	50	234.43	1.0024	0.9354

**Watts**

Voltage \ Sample	1	2	3	4	5
210	254.17	245.46	256.34	257.17	256.88
220	253.56	244.29	252.69	254.53	252.62
230	250.07	239.69	250.84	252.21	250.82
240	246.14	237.49	248.27	250.41	248.35
250	244.41	235.89	234.59	248.75	234.43

**VA**

Voltage \ Sample	1	2	3	4	5
210	261.639	254.331	264.579	265.524	264.369
220	261.184	252.670	262.438	264.132	262.504
230	260.153	251.896	261.878	263.373	261.924
240	257.976	251.784	261.360	263.352	261.480
250	258.075	252.475	250.675	263.625	250.600

**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	165.61	0.83406	0.9445
220	50	167.33	0.81161	0.9361
230	50	168.36	0.78886	0.9267
240	50	168.75	0.76675	0.9161
250	50	168.94	0.74664	0.9039

Sample 2 Dimmed to 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	161.68	0.82512	0.9321
220	50	162.87	0.80247	0.9212
230	50	163.46	0.78077	0.9089
240	50	163.78	0.76155	0.8949
250	50	163.91	0.74446	0.8792

Sample 3 Dimmed to 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	159.58	0.81415	0.9323
220	50	160.79	0.79247	0.9211
230	50	161.71	0.77251	0.9089
240	50	162.14	0.75351	0.8955
250	50	163.03	0.73827	0.8819

Sample 4 Dimmed to 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	170.74	0.86128	0.9431
220	50	172.19	0.83679	0.9342
230	50	173.01	0.81292	0.9243
240	50	173.51	0.79116	0.9127
250	50	173.72	0.77095	0.9001

Sample 5 Dimmed to 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	159.51	0.81411	0.9322
220	50	160.75	0.79242	0.9213
230	50	161.72	0.77249	0.9091
240	50	162.11	0.75352	0.8952
250	50	163.04	0.73875	0.8821

**Watts**

Voltage \ Sample	1	2	3	4	5
210	165.61	161.68	159.58	170.74	159.51
220	167.33	162.87	160.79	172.19	160.75
230	168.36	163.46	161.71	173.01	161.72
240	168.75	163.78	162.14	173.51	162.11
250	168.94	163.91	163.03	173.72	163.04

**VA**

Voltage \ Sample	1	2	3	4	5
210	175.152	173.275	170.971	180.868	170.963
220	178.554	176.543	174.343	184.093	174.332
230	181.437	179.577	177.677	186.971	177.672
240	184.020	182.772	180.842	189.878	180.844
250	186.660	186.115	184.567	192.737	184.687

**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	116.36	0.61363	0.9018
220	50	117.68	0.60226	0.8869
230	50	118.85	0.59121	0.8728
240	50	119.84	0.58136	0.8576
250	50	120.09	0.57347	0.8433

Sample 2 Dimmed to 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	116.65	0.62634	0.8856
220	50	117.68	0.61443	0.8691
230	50	118.48	0.60318	0.8527
240	50	119.41	0.59412	0.8361
250	50	120.77	0.58756	0.8206

Sample 3 Dimmed to 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	114.08	0.61247	0.8857
220	50	116.28	0.60476	0.8724
230	50	117.83	0.59644	0.8577
240	50	119.41	0.59044	0.8415
250	50	121.21	0.58659	0.8251

Sample 4 Dimmed to 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	123.59	0.64858	0.9062
220	50	124.84	0.63528	0.8919
230	50	125.48	0.62167	0.8764
240	50	126.48	0.61099	0.8613
250	50	127.49	0.60185	0.8461

Sample 5 Dimmed to 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	114.04	0.61246	0.8855
220	50	116.25	0.60472	0.8721
230	50	117.81	0.59646	0.8575
240	50	119.43	0.59043	0.8413
250	50	121.22	0.58622	0.8249

**Watts**

Voltage \ Sample	1	2	3	4	5
210	116.36	116.65	114.08	123.59	114.04
220	117.68	117.68	116.28	124.84	116.25
230	118.85	118.48	117.83	125.48	117.81
240	119.84	119.41	119.41	126.48	119.43
250	120.09	120.77	121.21	127.49	121.22

**VA**

Voltage \ Sample	1	2	3	4	5
210	128.862	131.531	128.618	136.201	128.616
220	132.497	135.174	133.047	139.761	133.038
230	135.978	138.731	137.181	142.984	137.185
240	139.526	142.588	141.705	146.637	141.703
250	143.367	146.890	146.647	150.462	146.555

**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

